XAV-7W

SERVICE MANUAL

US Model
E Model

Ver 1.0 2002.04

The XAV-7W is composed of the following models.

Media Center	XAV-7W
Connection Box	XA-114
Wireless Remote Commander	RM-X118

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
22 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 5 % total harmonic distortion.

Media center/FM/AM receiver

Monitor section

Display type Wide LCD color monitor
Size 7 in.
System TFT active matrix
Number of pixel
336,960 pixels

Tuner section

FM
Tuning range
87.5 - 107.9 MHz
Intermediate frequency
10.7 MHz
Usable sensitivity
8 dBf
Frequency response
30 - 15,000 Hz
Selectivity 75 dB (400 kHz)
S/N ratio 66 dB (stereo)
72 dB (mono)
Harmonic distortion at 1 kHz
0.6% (stereo)
0.3% (mono)
Separation 35 dB at 1 kHz

AM
Tuning range
530 - 1,710 kHz
Intermediate frequency
10.7 MHz/450 kHz
Usable sensitivity
30 µV

Amplifier section

Outputs Speaker outputs
(sure seal connectors)
Speaker impedance
4 - 8 ohms
Maximum power output
45 W × 4 (into 4 ohms, at 1 kHz)

General

Power requirements
12 V DC, from car battery (negative ground)
Inputs FM/AM antenna (1)
Power supply (1)
Telephone ATT control lead (1)
Illumination control lead (1)
Remote control input connector (1)
Outputs Front audio (1)
Rear audio (1)
Subwoofer (mono)
Power antenna relay control lead (1)
Power amplifier control lead (1)
I/O connector
Dedicated 22-pin connector
Tone controls
Bass ±7.5 dB at 100 Hz
Treble ±7.5 dB at 10 kHz
Loudness +8 dB at 100 Hz
+2 dB at 10 kHz
Dimensions With monitor closed
Approx. 178 × 50 × 185 mm (7 1/8 × 2 × 7 3/8 in.) (W × H × D)
Mass Approx. 1.7 kg (3 lb 12 oz)
Supplied accessories
Card remote commander RM-X118 (1) (incl. 1 lithium battery)
Connection box (1)
Parts for installation and connections (1 set)
Operating Instructions (1 set)

– Continued on next page –

MEDIA CENTER FM/AM RECEIVER

9-873-928-01
2002D0500-1
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Sony Corporation
e Vehicle Company
Published by Sony Engineering Corporation

SONY®

Connection box

Inputs	Video/audio (Sony bus compatible, 1) BUS control input connector (1) Video/audio (2)
Outputs	Video/audio (1)
Connection to main unit	Dedicated 22-pin connector
Dimensions	Approx. 136 × 77 × 30 mm (5 3/8 × 3 1/8 × 1 3/16 in.) (W × H × D)
Mass	Approx. 260 g (9 oz)

Design and specifications are subject to change without notice.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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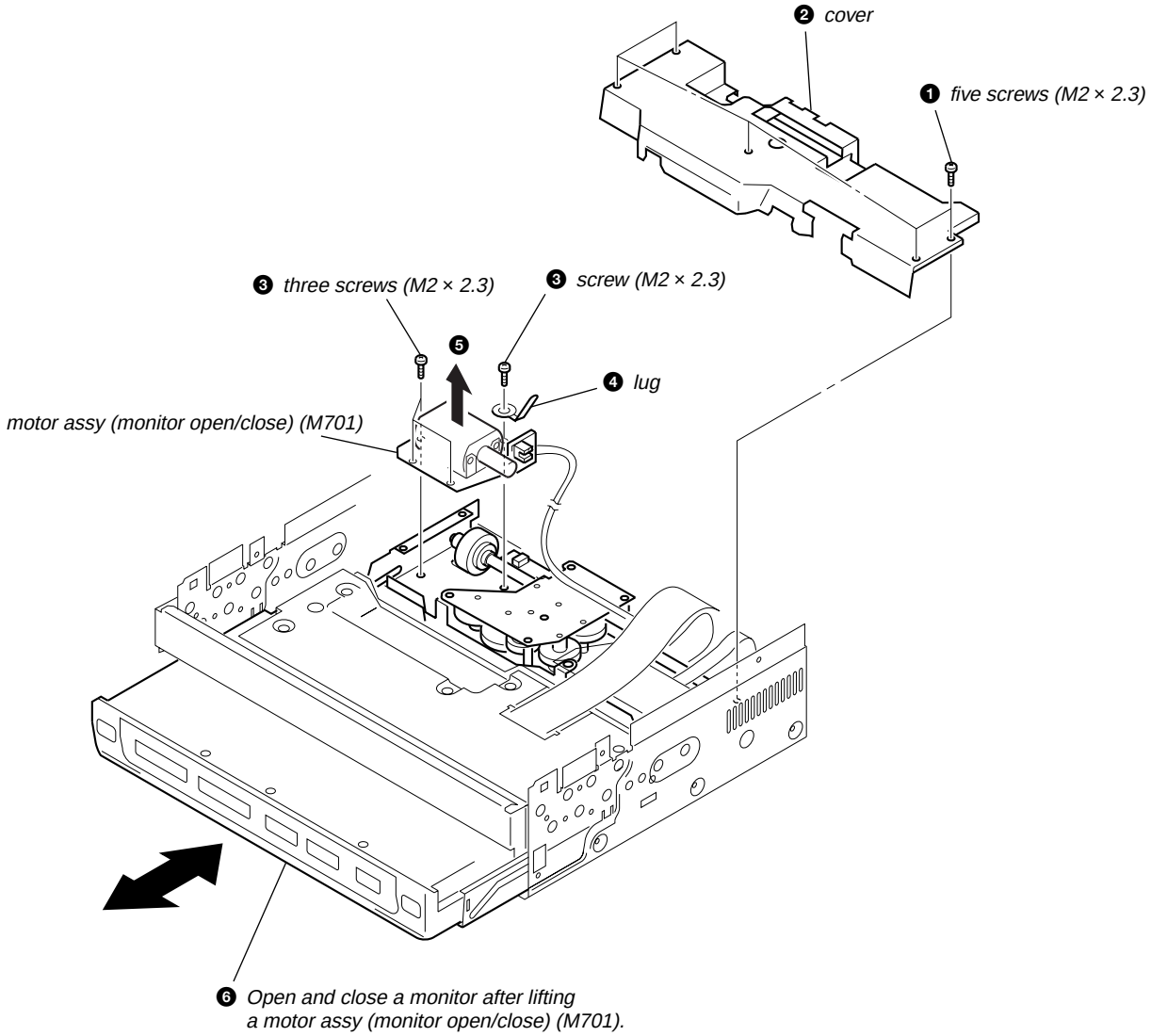
SECTION 1
SERVICING NOTES

OPENING AND CLOSING OF THE MONITOR IN AN ELECTRIC INTERRUPTION STATE

In the state of electric interruption, if a monitor is opened and closed by force, it will became the cause of failure.
Please open and close a monitor at the time of repair after the following procedure decomposes and removing a motor.

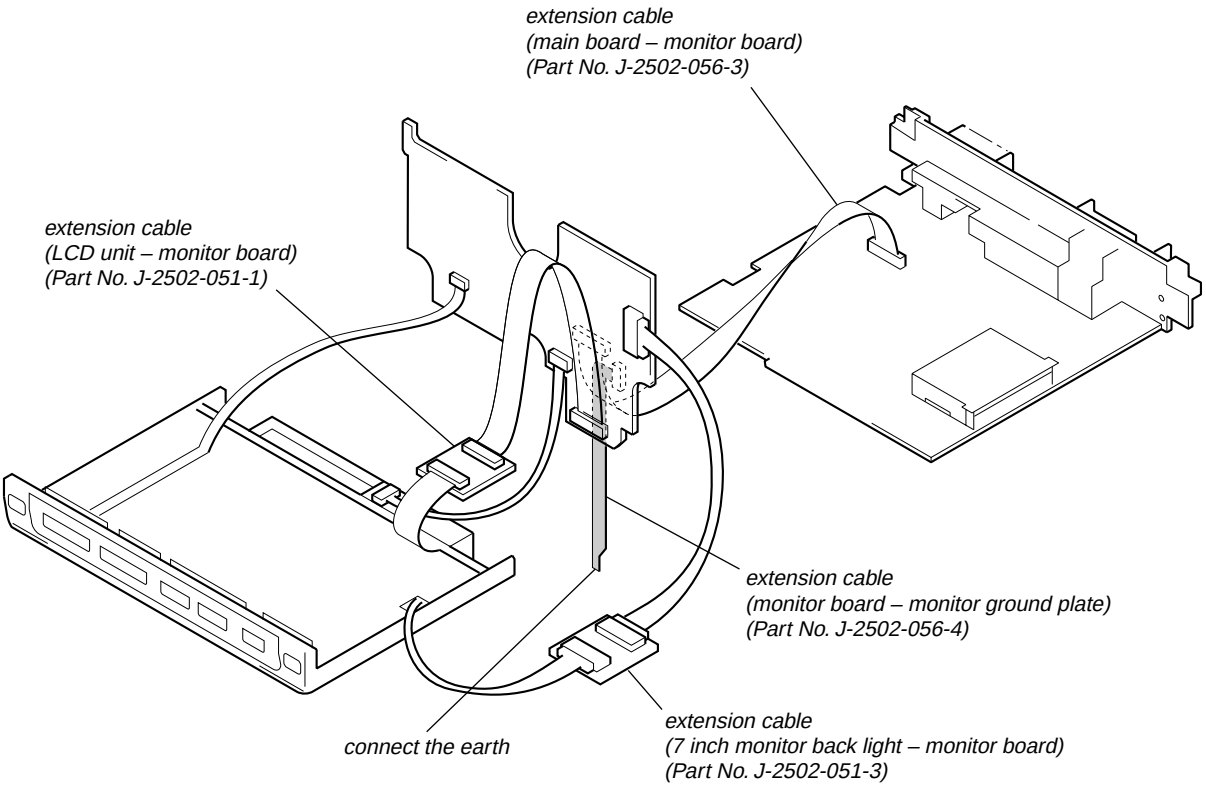
1) Front Panel Assy (Disassembly page 9)
2) Case (Upper) Assy (Disassembly page 10)
3) Motor Assy (Monitor Open/Close) (M701)

Note: Follow the disassembly procedure in the numerical order given.


❷ cover
❶ five screws (M2 × 2.3)
❸ three screws (M2 × 2.3)
❸ screw (M2 × 2.3)
❺
❹ lug
motor assy (monitor open/close) (M701)
❻ Open and close a monitor after lifting
a motor assy (monitor open/close) (M701).

JIG ON REPAIRING

When repairing this set, etc., connect the extension cable as the figure shown below.



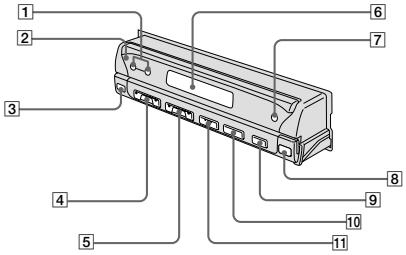
SECTION 2
GENERAL

This section is extracted from instruction manual.

Location of Controls

Main unit

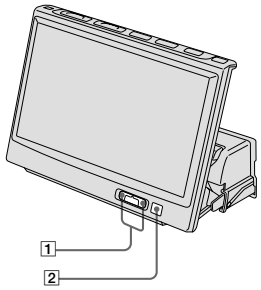
Monitor closed



1 DISC –/+ buttons
2 Reset button
3 Sensor for card remote commander
4 VOL (volume adjust) –/+ buttons
5 SEEK/AMS –/+ buttons
6 Display window
7 OFF (Standby/Power off) button*
8 OPEN/CLOSE button
9 ATT button
10 MODE button
11 SOURCE (Power on/Radio/CD/MD/VIDEO or TV) button

* **Warning when installing in a car without an ACC (accessory) position on the ignition switch**
After turning off the ignition, be sure to press OFF on the unit for 2 seconds to turn off the clock display. Otherwise, the clock display does not turn off and this causes battery drain.

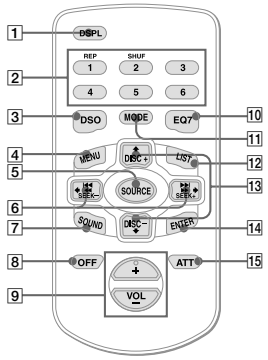
Monitor opened up



1 ANGLE (monitor angle adjust) –/+ buttons
2 Sensor for card remote commander

Card remote commander

The unit can be operated with the card remote commander. For safety, stop the car before using the card remote commander, or have a passenger operate it.



1 DSPL (display mode change) button
2 Number buttons
3 DSO button
4 MENU button
5 SOURCE (Power on/Radio/CD/MD/AUX) button
6 ←/→ SEEK/AMS –/+ buttons
7 SOUND button
8 OFF (Standby/Power off) button
9 VOL (volume adjust) +/– buttons
10 EQ7 button
11 MODE button
12 LIST button
13 ↑/↓ DISC +/– buttons
14 ENTER button
15 ATT button

Note
If the unit is turned off by pressing OFF for 2 seconds, it cannot be operated with the card remote commander unless SOURCE on the unit is pressed to activate the unit first.

Tip
See "Replacing the lithium battery" for details on how to replace the batteries (page 44).

1 Installing the Main Unit

Installation angle
The unit should be installed within an angle of 25 degrees from horizontal. If this angle is exceeded, the monitor may not open up or retract properly.

Before installation

This unit is designed to be completely safe, but if not installed correctly, it can cause accidents. Be sure to verify the following points before installation.
Install the main unit to the in-dash location, and the connection box under the navigator's seat, etc.

- If the monitor in the opened position is close to a air-conditioning outlet, the outlet should be closed.
- Install the unit so that the monitor when opened up will not block access to the hazard switch or other important controls.
- Do not install the unit (monitor) in locations which may be subject to excessively low or high temperatures. (Otherwise the unit may be deformed and the LCD may be damaged.) Exposure to direct sunlight can also lead to high temperatures and should be avoided.

Selecting the installation location

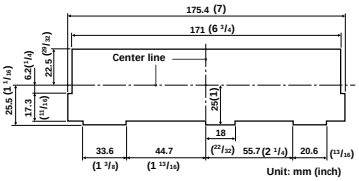
Note
Keep the units and connection cables apart.
The Media Center main unit and the connection box ① should not be in close proximity.

1 Set the ignition key to OFF or remove it.

2 Place the units in their intended mounting locations to check the cable length and monitor installation conditions.

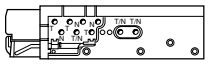
Note
If the installation dimensions shown at right are not observed, the monitor may not open up smoothly. If this happens, check the installation once more and modify the cluster panel where the dimension requirements are not met. For some car models, a separately available mounting kit may be required.
(For details, please consult your dealer.)

Cluster panel dimensions

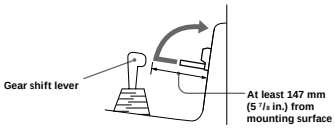


Installation procedure precautions

- Perform the installation carefully. Dropping the unit or otherwise subjecting it to strong impact or force may deform the chassis, resulting in failure of the monitor loading mechanism or other defects.



- To allow for proper opening and closing of the monitor, there must be a clearance of at least 147 mm between the closest position of the gear shift lever and the mounting surface for the unit.



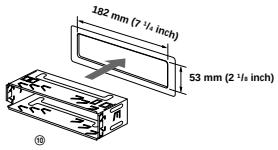
- In some cases, the gear shift lever may touch the monitor when moved to a certain position. Make sure that there is no obstruction to driving operations.
- When installing this unit together with other car audio equipment (single DIN slot size) in a stacked configuration, install the Media Center main unit on top.

Installation procedure

Mounting example

When installing this unit, be sure to close the monitor of the unit. If the monitor is opened while installing and given too much force, it may cause a malfunction.

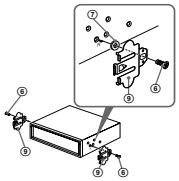
1



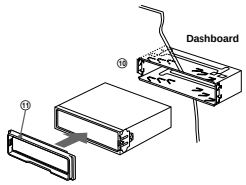
2

Bend these claws outward for a tight fit, if necessary.

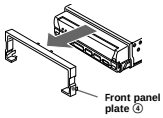
3



4



When removing front panel plate



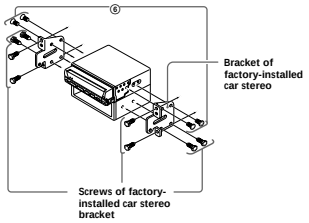
Do not throw away the front panel plate, since it will be needed when you change the car you install the unit.
For details, see "Removing the Front Panel Plate". (page 17).

Note

- Do not press the front panel buttons of the unit during installation and do not apply strong force.
- Do not place any objects on top of the unit.

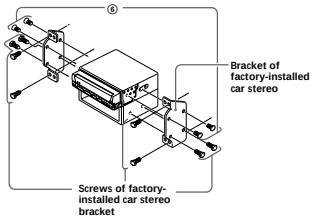
Toyota cars (illustration shows an example for a Toyota car)

Align the brackets of the factory-installed car stereo with the mounting holes marked "T" on the side of the Media Center main unit, and use the supplied screws 6 should be used.



Nissan cars

Align the brackets of the factory-installed car stereo with the mounting holes marked "N" on the side of the Media Center main unit, and use the supplied pan-head screws ⑥ to fasten the brackets.

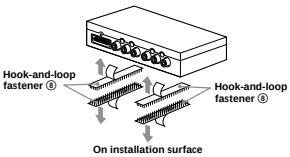


* Be sure to use only the supplied pan-head screws ⑥ for installation. If any other screws are used, make sure they conform to the requirements shown below.
Using longer screws can cause internal damage to the unit.

Damage can also occur if the screws are used directly on the unit without the brackets of the factory-installed car stereo.

Installing the connection box XA-114

Cut off the required length of hook-and-loop fastener ⑧ and fix the connection box ① on the carpet or similar.



Note

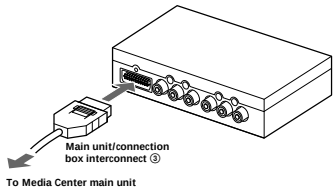
- Ensure that the mounting surface is clean.
- Do not install the connection box
  - in locations subject to high temperatures
  - in locations subject to direct sunlight, warm air from heater outlets, or other locations that can get hot.
- When attaching the hook-and-loop fastener to the bottom of the connection box, do not cover the model name plate in the center.

Hooking up the connection box

Refer also to the section "3 Car Systems Connections" (page 14 - 15).

Use of connectors

Insert until the connector clicks into place. To remove, press here and pull out.



Insert ③ until a click is heard.

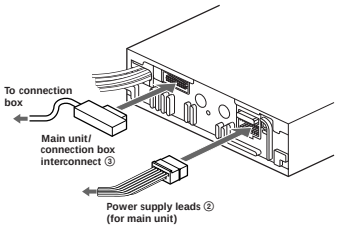
2 Main Unit Connections

Refer also to the section "3 Car Systems Connections" (page 14 - 15).

Use of connectors

Insert until the connector clicks into place. To remove, press here and pull out.

Insert until the connector clicks into place. To remove, press here and pull out.

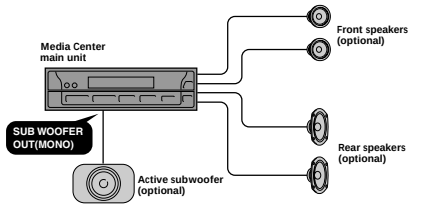


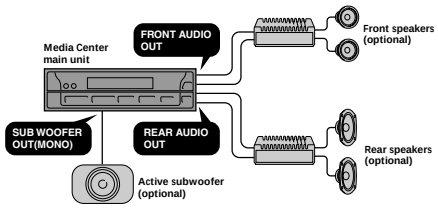
Insert ③ until a click is heard.

Connection Example

For details, see the section "3 Car Systems Connections" (page 14 - 15). Be sure to refer also to the documentation for all other components in the system.

Speaker connections





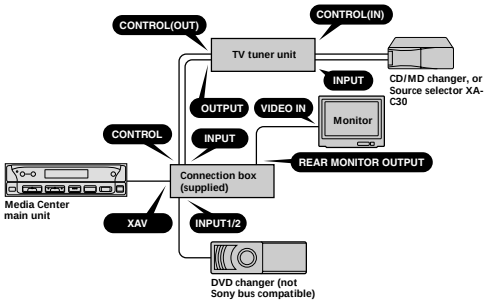
Notes

- Be sure to connect the ground cord before connecting the amplifier.
- If you connect an optional power amplifier and do not use the built-in amplifier, the beep sound will be deactivated.

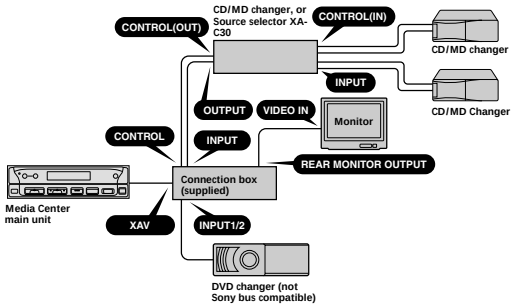
Connection of separately available accessories

Items except the main unit and the connection box are optionally available.

With Sony bus system TV tuner unit



Without TV tuner unit



Tip

For connecting two or more CD/MD changers, the source selector XA-C30 (optional) is necessary.

Connecting Information

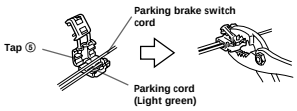
For details, see the section "3 Car Systems Connections" (next page).

Notes

- Be sure to connect the power input cord after all other cords have been connected.
- If the parking brake switch cord is too thin, connect the parking cord to the parking brake switch cord directly without using the tap.

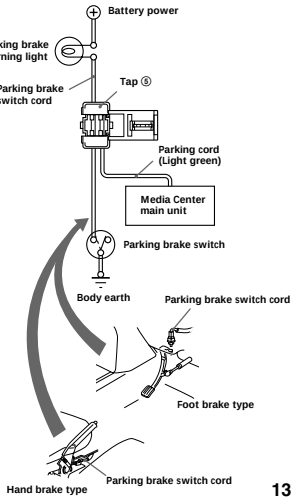
Using the tap

Attach and fix the tap securely as illustrated.



Connecting the parking cord

Be sure to connect the parking cord (Light green) to the parking brake switch cord. The mounting position of the parking brake switch cord depends on your car. Refer to the system connection diagram below and consult your car dealer or your nearest Sony dealer for further details.



3 Car Systems Connections

Refer also to the documentation for all other components in the system.

Also see "Connecting Information" on page 13.

- Components listed here except for supplied accessories are available separately. When connecting such components, be sure to also refer to their documentation.
  For specifications and other information on separately available components, contact your dealer.

Prevention of accidents caused by short-circuits

To prevent the risk of accidents caused by short-circuits, connect the power supply leads (red and yellow) only after all other wiring has been completed, and only with the ignition key in the OFF position. Otherwise, accidental short-circuiting can lead to electric shock and to serious damage.

When a fuse has blown, check the wiring and locate the cause of the problem before replacing the fuse. When replacing the fuse, be sure to use only a fuse of the same rating (ampere rating). Using a different fuse or bridging the contacts with wire is highly dangerous and can lead to serious damage.

Make sure to connect all of the following leads.
Otherwise there is a risk of electric shock, damage to the equipment, or malfunction.
- Connect light green lead to parking brake switch lead of car.
- Connect yellow lead to battery power supply of car.
- Connect red lead to accessory power supply of car.
- Connect black lead to metal point on car chassis.
- * **Do not to mix up the yellow and red leads, as this will cause the memory contents to be lost.**

Observe the following precautions.
Otherwise there is a risk of electric shock, damage to the equipment, or malfunction.
- Cover unused connectors with electrician's tape to prevent accidental contact.
- Route FM/AM antenna cable, bus cable, RCA interconnects, and power supply leads as far apart from each other as possible, to prevent noise interference.
- Always grasp the connector and do not pull the cable when disconnecting the bus cable or other cables. Otherwise the cable may become detached.

Note

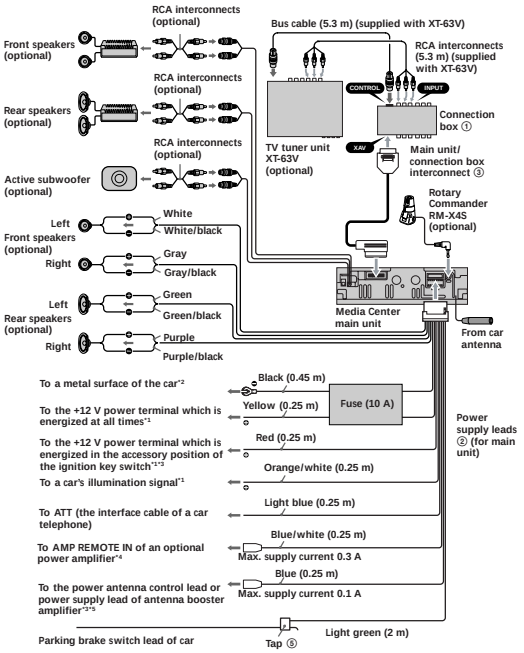
Install the TV antennas away from the FM/AM antenna.

Notes on the control and power supply leads
- The power antenna control lead (blue) supplies +12 V DC when turn on the tuner.
- When your car has built-in FM/AM antenna in the rear/side glass, connect the power antenna control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna booster. For details, consult your dealer.
- A power antenna without relay box cannot be used with this unit.

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection
- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the ground lead of this unit to the negative (–) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker wires installed in your car if the unit shares a common negative (–) lead for the right and left speakers.
- Do not connect the unit's speaker cords to each other.


RCA interconnects (optional)
Bus cable (5.3 m) (supplied with XT-63V)
Front speakers (optional)
RCA interconnects (5.3 m) (supplied with XT-63V)
CONTROL
INPUT
Rear speakers (optional)
Connection box ①
TV tuner unit XT-63V (optional)
XAV
Main unit/ connection box interconnect ③
Active subwoofer (optional)
Rotary Commander RM-X4S (optional)
Left
White
White/black
Front speakers (optional)
Right
Gray
Gray/black
Left
Green
Green/black
Rear speakers (optional)
Right
Purple
Purple/black
Media Center main unit
From car antenna
To a metal surface of the car*2
Black (0.45 m)
To the +12 V power terminal which is energized at all times*1
Yellow (0.25 m)
Fuse (10 A)
Power supply leads ② (for main unit)
To the +12 V power terminal which is energized in the accessory position of the ignition key switch*1*2
Red (0.25 m)
To a car's illumination signal*1
Orange/white (0.25 m)
To ATT (the interface cable of a car telephone)
Light blue (0.25 m)
To AMP REMOTE IN of an optional power amplifier*4
Blue/white (0.25 m)
Max. supply current 0.3 A
To the power antenna control lead or power supply lead of antenna booster amplifier*3*5
Blue (0.25 m)
Max. supply current 0.1 A
Parking brake switch lead of car
Tap ⑤
Light green (2 m)

*1 Be sure to connect the black ground lead to it first.
*2 First connect the black ground lead, then connect the yellow and red power input leads.
*3 When your car has built-in FM/AM antenna in the rear/side glass, see "Notes on the control and power supply leads" (previous page).
*4 This connection is only for amplifiers. Connecting any other system may damage the unit.
*5 It is not necessary to connect this lead if there is no power antenna or antenna booster, or with a manually-operated telescopic antenna.

Note on the accessory power input lead (red)
If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times.

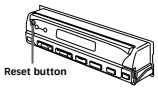
4 After Installation and Connections

Note
To avoid the possibility of damage, you should not use a needle or push the button too strongly.

1 **Start the car's engine.**

2 **Verify that the brake lights, other lights, horn, turn indicators, and all other electrical parts operate normally.**

3 **Use a ball-point pen or similar to push the Reset button on the unit.**



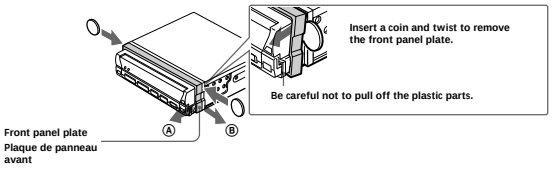
When you press the Reset button, the system becomes operative.

Warning when installing in a car without ACC (accessory) position on the ignition key switch

Be sure to press and hold OFF on the unit for more than two seconds to turn off the clock display after turning off the engine.
When you press OFF only momentarily, the clock display does not turn off and this causes battery wear.

Removing the Front Panel Plate

To remove the front panel plate from the unit, use the following procedure.


Insert a coin and twist to remove the front panel plate.
Be careful not to pull off the plastic parts.
Front panel plate
Plaque de panneau avant
A
B

1 **Pull the lower side of the front panel plate forward (arrow A), to open a gap between the front panel plate and the body of the unit.**

2 **Insert a coin or similar thin item in this gap, and twist to remove the front panel plate.**

Be careful not to damage the unit.
Remove in the order left-to-right.

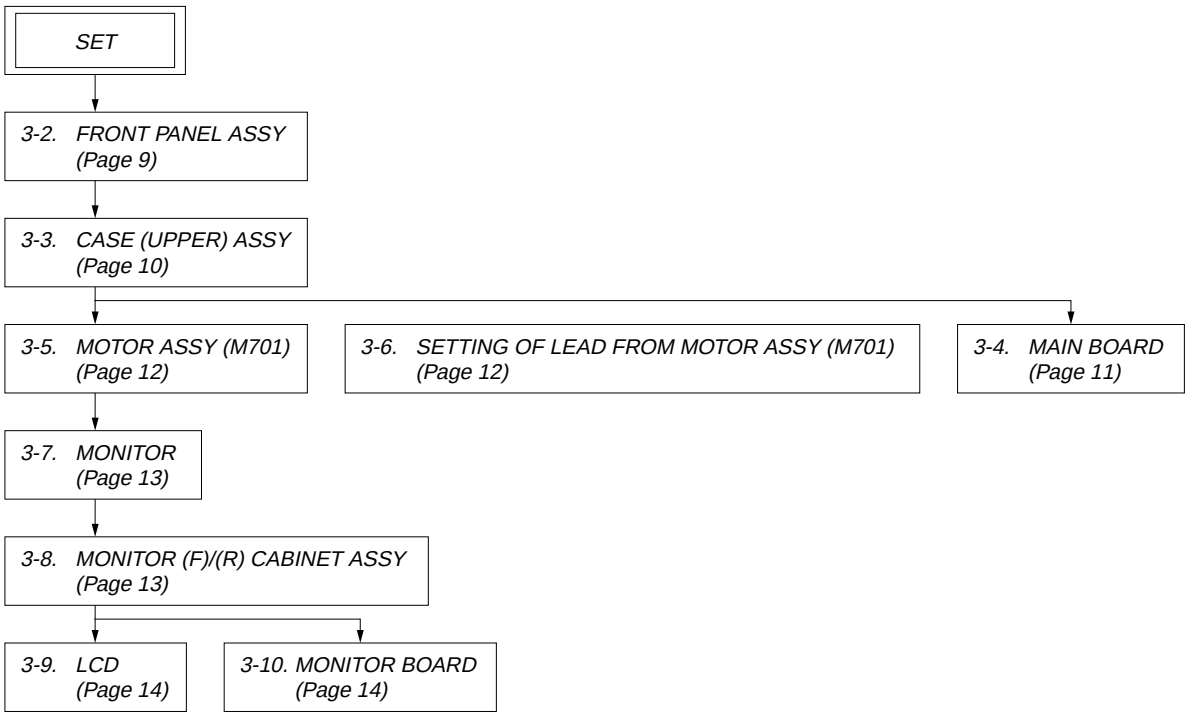
3 **Spreading the lower side of the front panel plate outward (arrow B), detach the plate from the body.**

Note
Be careful not to pull off the plastic parts attached to the lower side of the unit together with the front panel plate.

SECTION 3
DISASSEMBLY

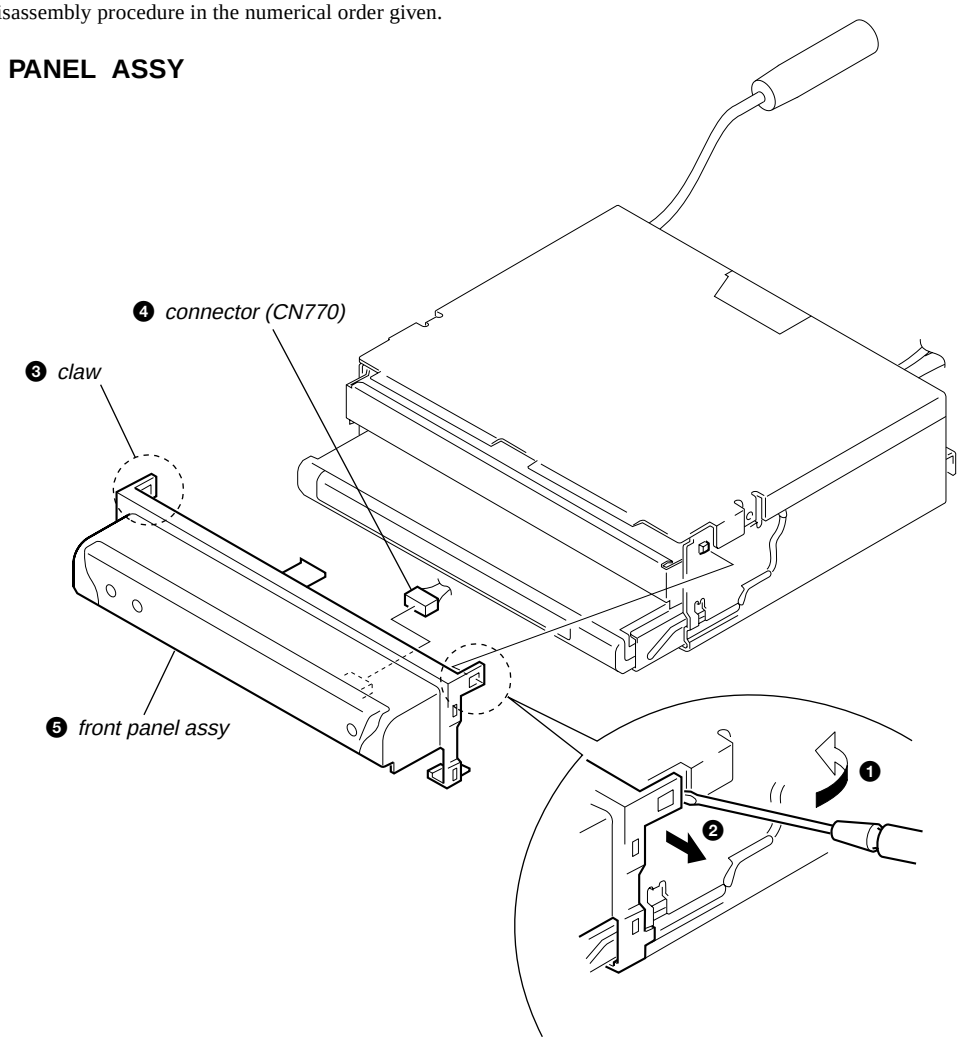
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

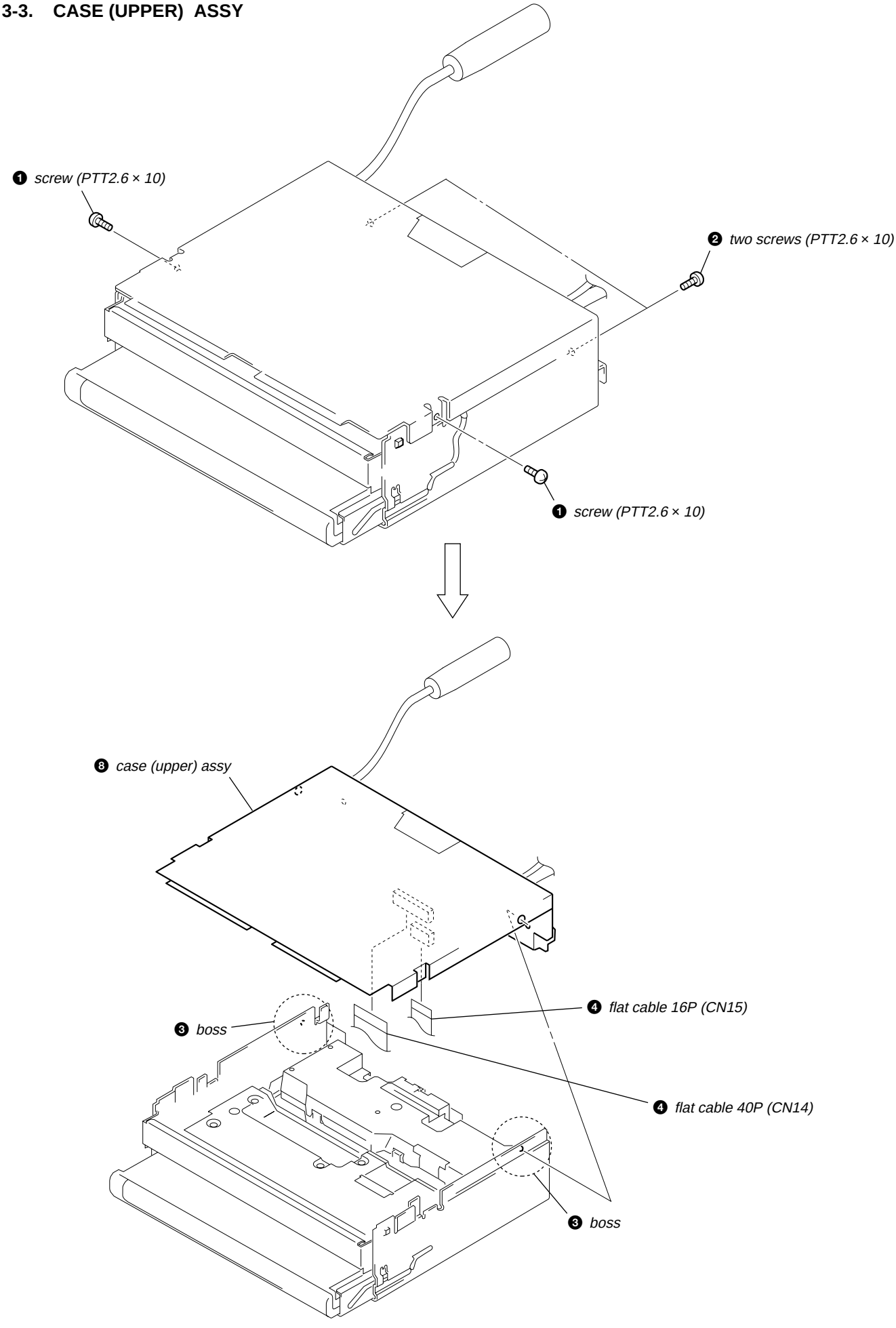

SET
3-2. FRONT PANEL ASSY (Page 9)
3-3. CASE (UPPER) ASSY (Page 10)
3-5. MOTOR ASSY (M701) (Page 12)
3-6. SETTING OF LEAD FROM MOTOR ASSY (M701) (Page 12)
3-4. MAIN BOARD (Page 11)
3-7. MONITOR (Page 13)
3-8. MONITOR (F)/(R) CABINET ASSY (Page 13)
3-9. LCD (Page 14)
3-10. MONITOR BOARD (Page 14)

Note: Follow the disassembly procedure in the numerical order given.

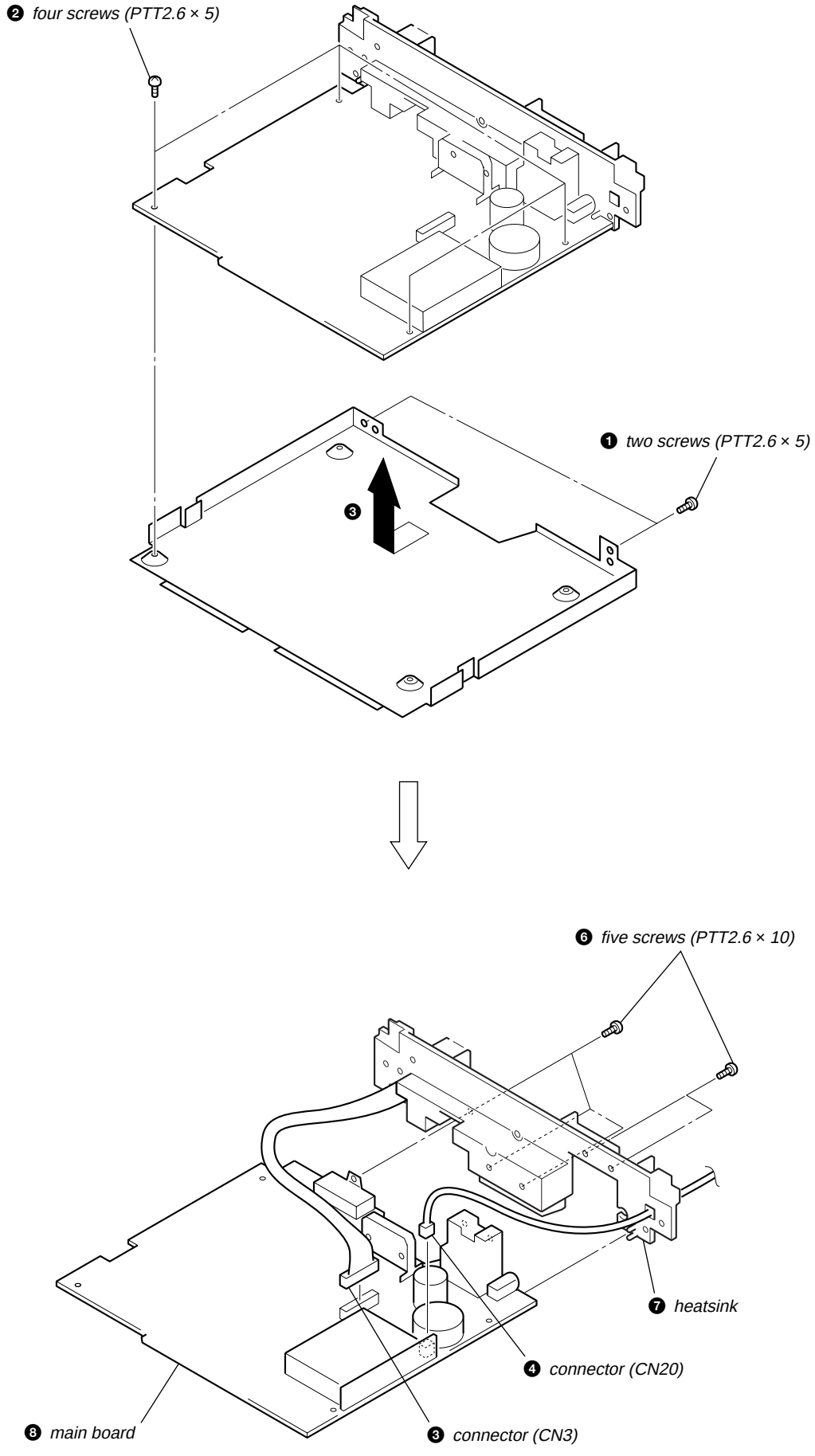
3-2. FRONT PANEL ASSY



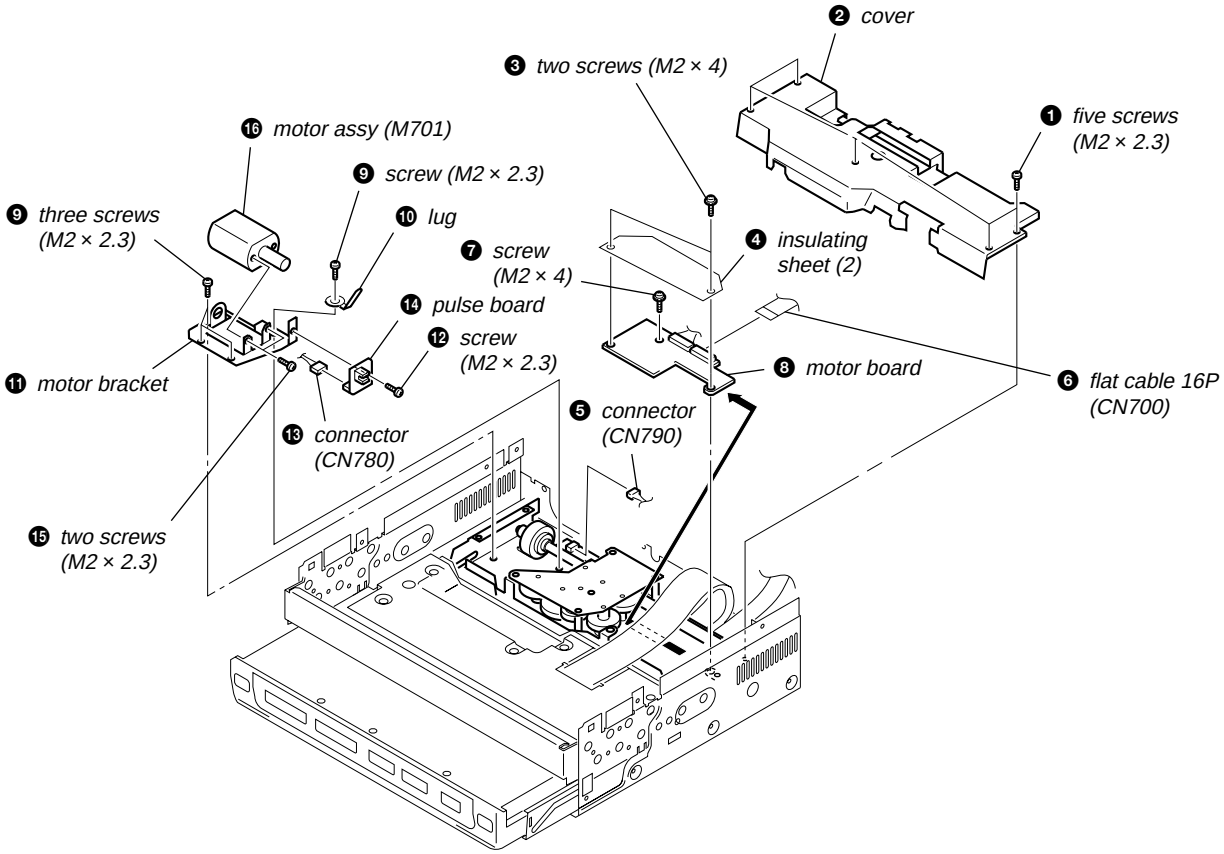
3-3. CASE (UPPER) ASSY


❶ screw (PTT2.6 × 10)
❷ two screws (PTT2.6 × 10)
❶ screw (PTT2.6 × 10)
❽ case (upper) assy
❹ flat cable 16P (CN15)
❸ boss
❹ flat cable 40P (CN14)
❸ boss

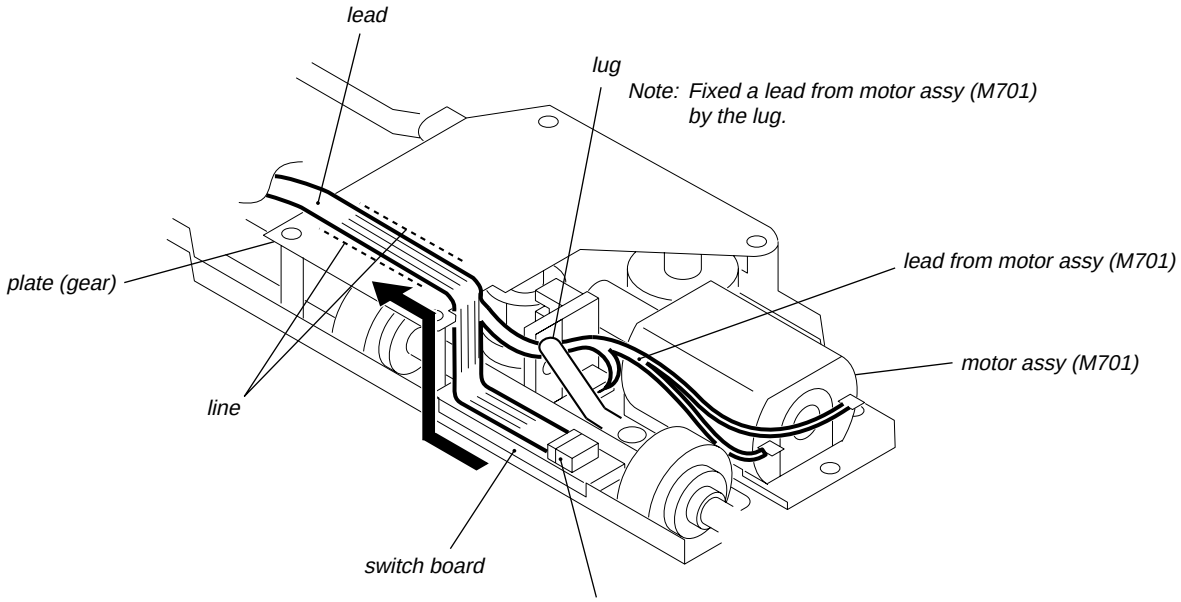
3-4. MAIN BOARD



3-5. MOTOR ASSY (M701)

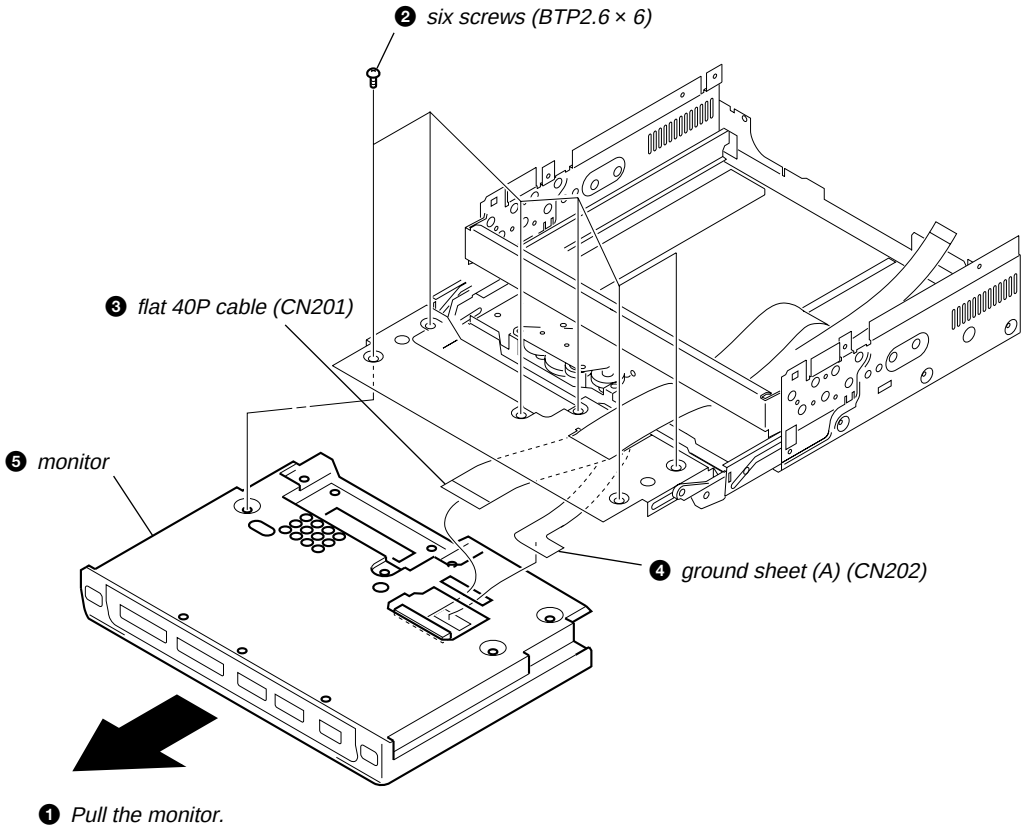

❷ cover
❸ two screws (M2 × 4)
❶ five screws (M2 × 2.3)
⓰ motor assy (M701)
❾ screw (M2 × 2.3)
❾ three screws (M2 × 2.3)
❿ lug
❼ screw (M2 × 4)
❹ insulating sheet (2)
⓮ pulse board
⓬ screw (M2 × 2.3)
⓫ motor bracket
❽ motor board
❻ flat cable 16P (CN700)
❺ connector (CN790)
⓭ connector (CN780)
⓯ two screws (M2 × 2.3)

3-6. SETTING OF LEAD FROM MOTOR ASSY (M701)

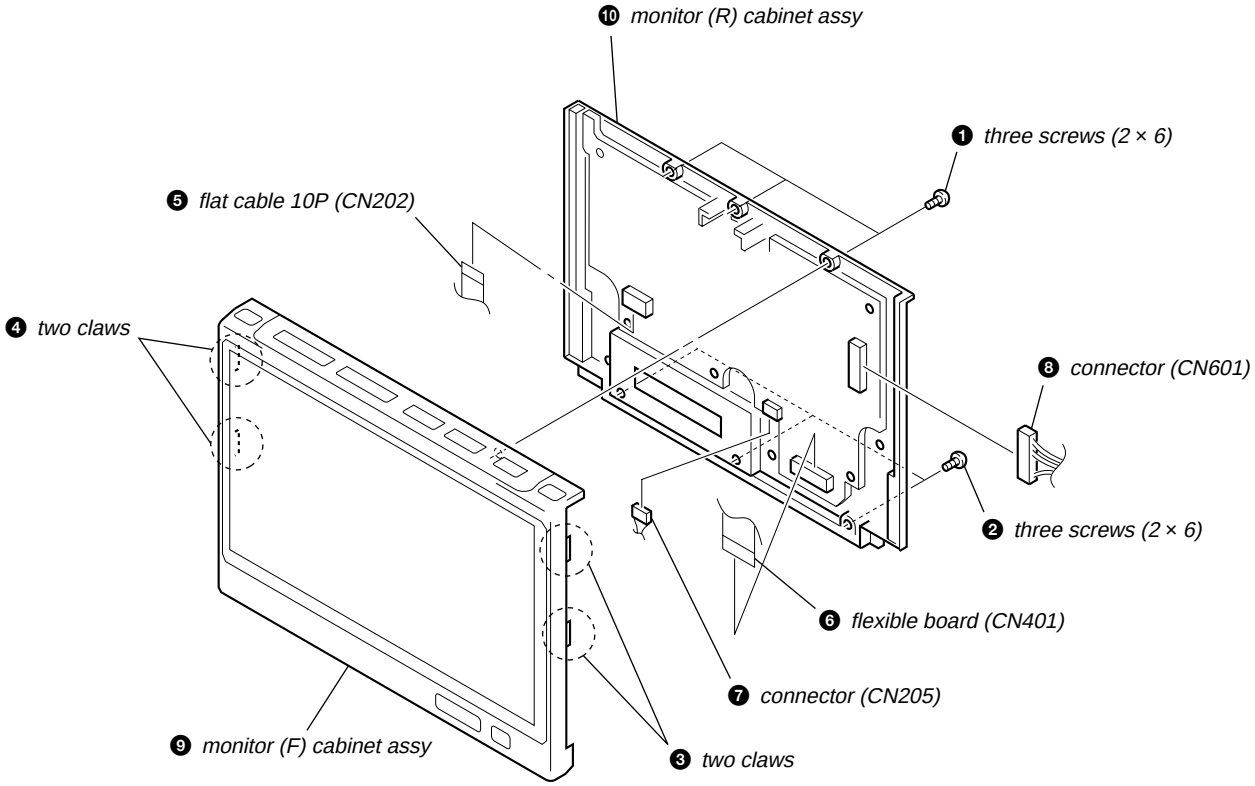


Note: Crawl on a lead from CN790 along with a switch board, and rises perpendicularly and sticks according to the line of a plate (gear).

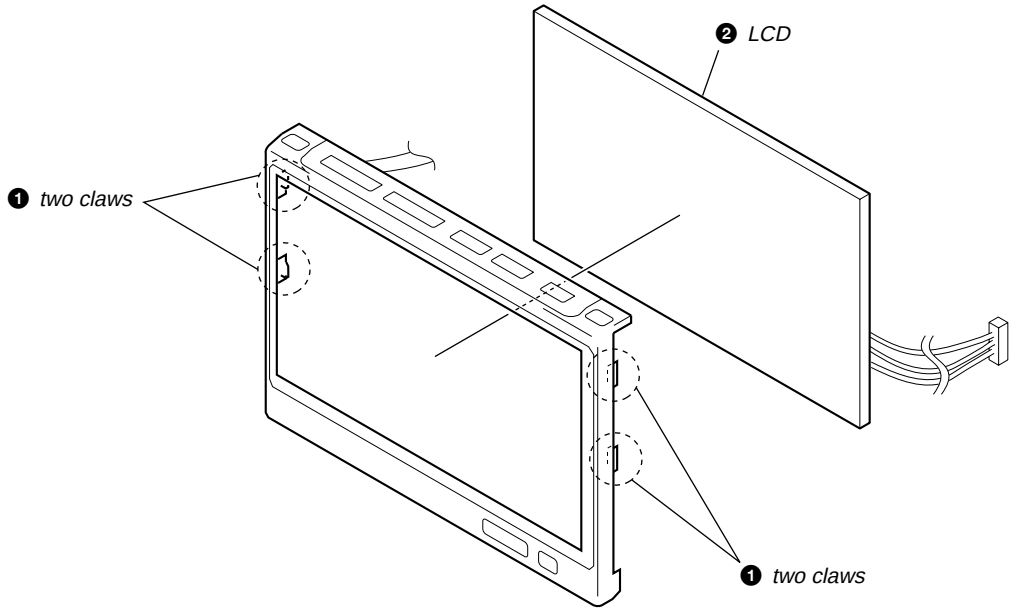
3-7. MONITOR



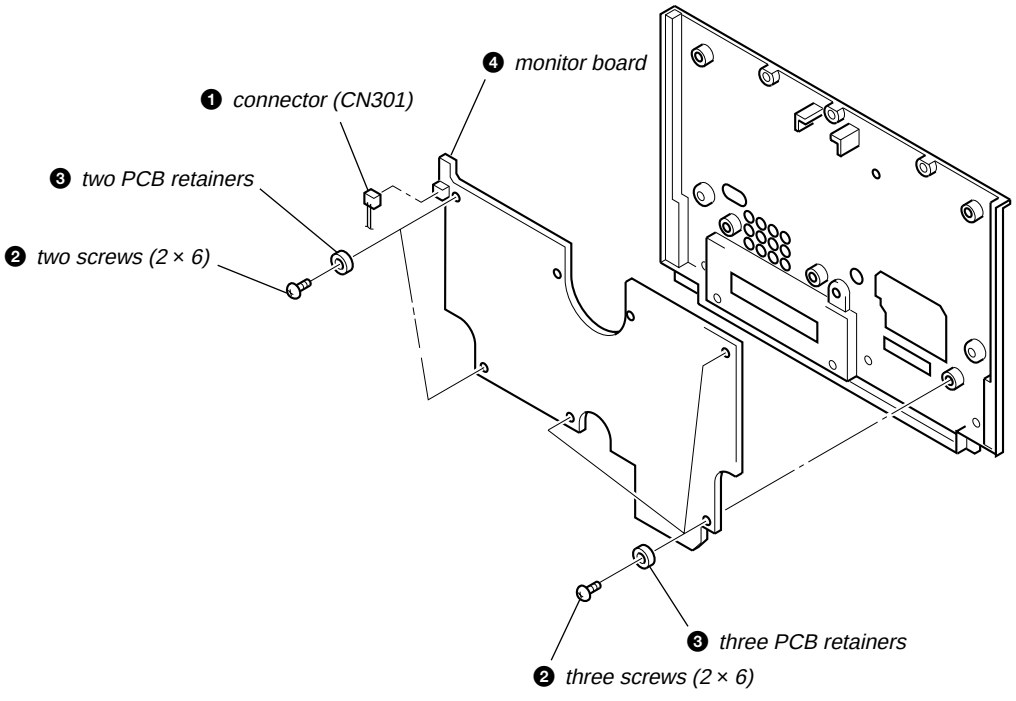
3-8. MONITOR (F)/(R) CABINET ASSY


❿ monitor (R) cabinet assy
❶ three screws (2 × 6)
❺ flat cable 10P (CN202)
❹ two claws
❽ connector (CN601)
❷ three screws (2 × 6)
❻ flexible board (CN401)
❼ connector (CN205)
❾ monitor (F) cabinet assy
❸ two claws

3-9. LCD



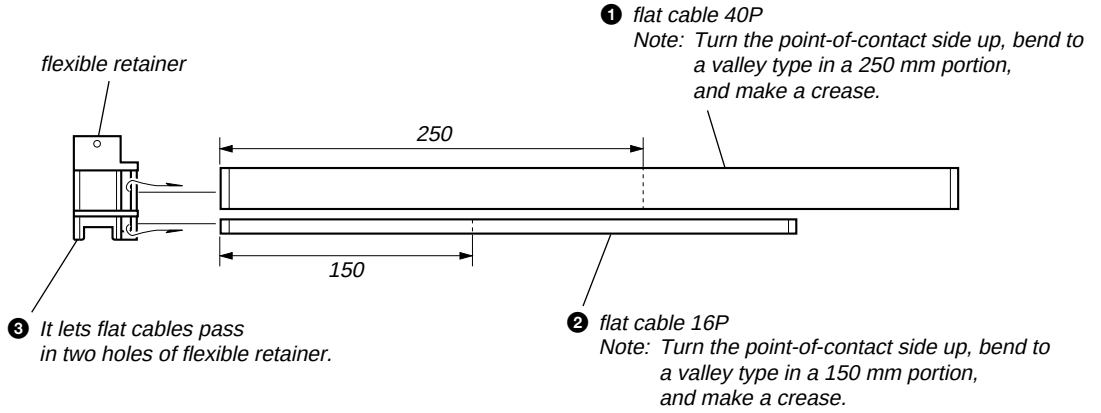
3-10. MONITOR BOARD

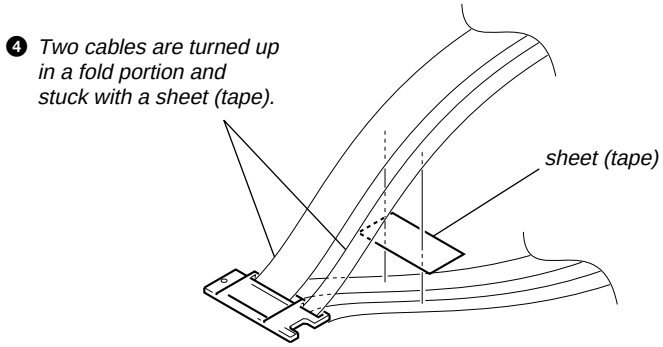


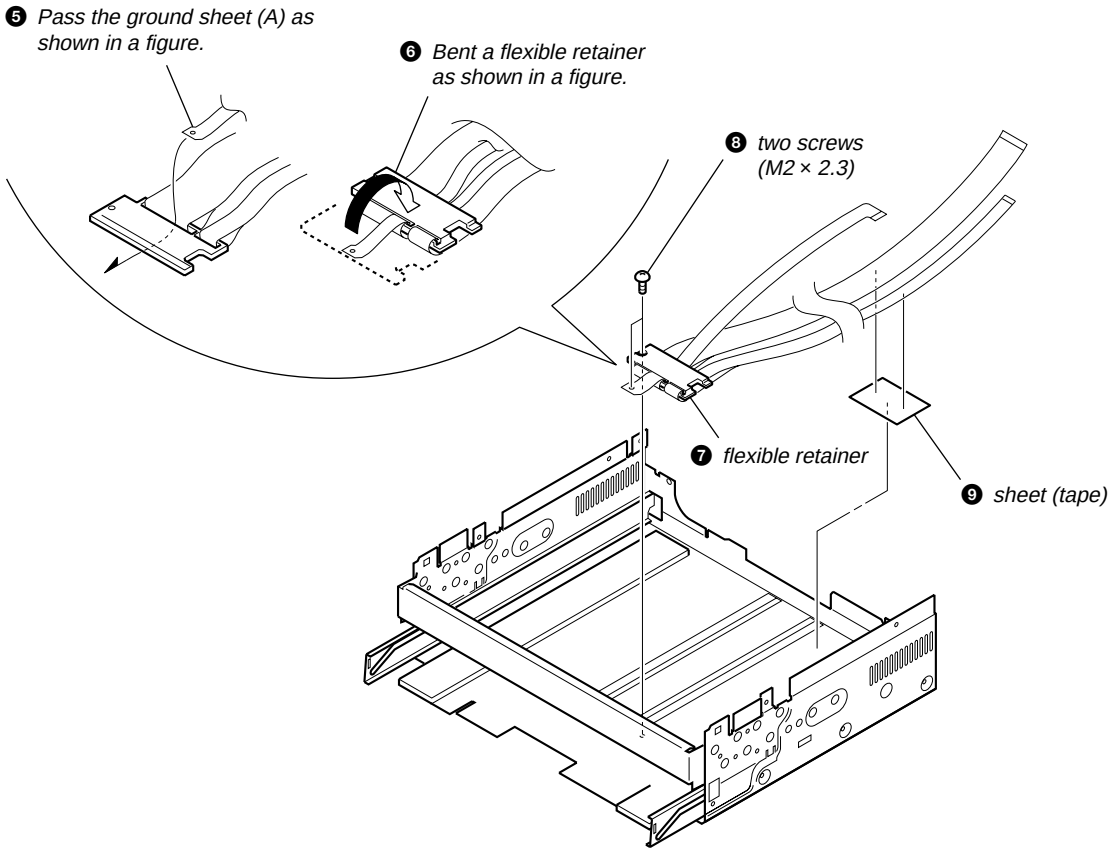
SECTION 4
ASSEMBLY

Note: Follow the assembly procedure in the numerical order given.

4-1. ASSEMBLY OF FLAT CABLE


❶ flat cable 40P
Note: Turn the point-of-contact side up, bend to a valley type in a 250 mm portion, and make a crease.
flexible retainer
250
150
❸ It lets flat cables pass in two holes of flexible retainer.
❷ flat cable 16P
Note: Turn the point-of-contact side up, bend to a valley type in a 150 mm portion, and make a crease.




❺ Pass the ground sheet (A) as shown in a figure.
❻ Bent a flexible retainer as shown in a figure.
❽ two screws (M2 × 2.3)
❼ flexible retainer
❾ sheet (tape)

SECTION 5
ELECTRICAL ADJUSTMENTS

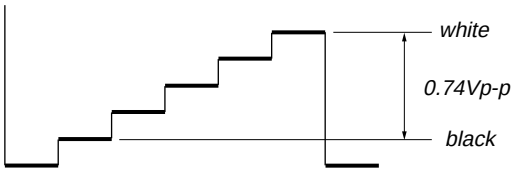
EQUIPMENT USED

Use the following measuring equipment for the electrical adjustment.

- Set (XAV-7W)
- Connection box (XA-114)
- NTSC/PAL pattern generator
- Oscilloscope
- Frequency counter
- Digital voltmeter
- Regulated power supply

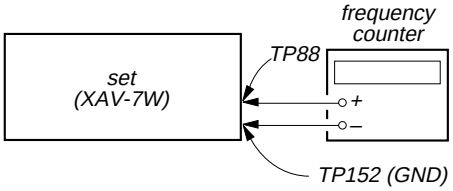
SETUP FOR ADJUSTMENT

1. Open the monitor, and press the [MENU] button on the wireless remote commander (RM-X118), and select the "MONITOR TUNE" with the [↑ DISC +] or [↓ DISC –] button. Then, select the "COLOR", "HUE" with the [↑ DISC +] or [↓ DISC –] button, and set the COLOR and HUE to the standard setting by pressing the [ENTER] button for more than 2 seconds respectively.
2. For the monitor adjustment, use the 5-step gray scale signal (chroma off) obtained from the pattern generator. Enter the gray scale signal to the connection box (XA-114) and connect an oscilloscope to the TP154 on the MONITOR board. Check that the voltage between black and white of the gray scale signal is 0.74Vp-p.



DC/DC FREQUENCY ADJUSTMENT

Connection:

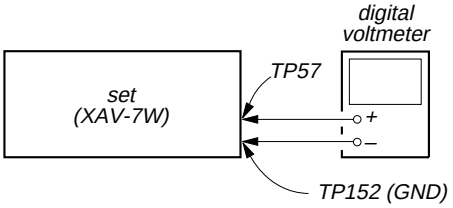


Adjusting Procedure:

1. Connect a frequency counter to the TP88 on the MONITOR board.
2. Adjust the RV900 so that the reading of frequency counter is 165 ± 0.5 kHz.

5V ADJUSTMENT

Connection:

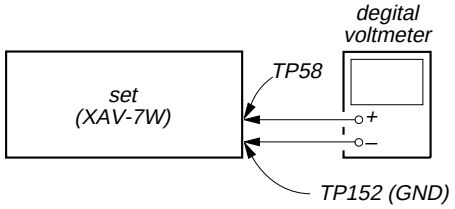


Adjusting Procedure:

1. Connect a digital voltmeter to the TP57 on the MONITOR board.
2. Adjust the RV503 so that the reading of digital voltmeter is 5.00 ± 0.04 V.

7.5V ADJUSTMENT

Connection:

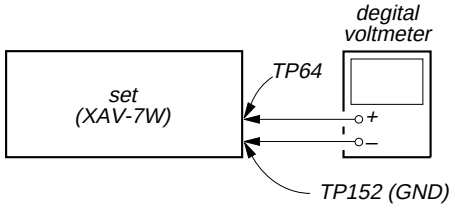


Adjusting Procedure:

1. Connect a digital voltmeter to the TP58 on the MONITOR board.
2. Adjust the RV501 so that the reading of digital voltmeter is 7.50 ± 0.04 V.

INVERTER VOLTAGE ADJUSTMENT

Connection:

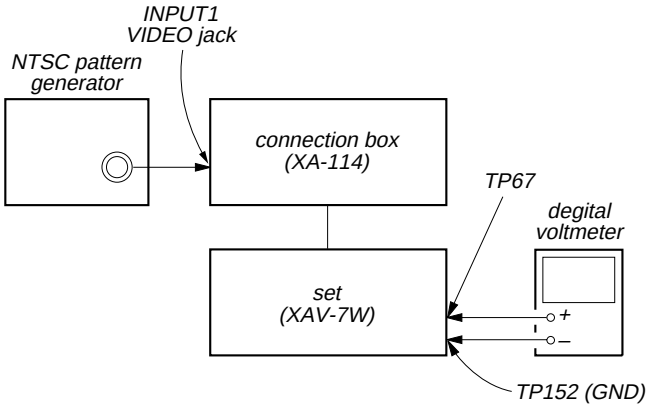


Adjusting Procedure:

1. Connect a digital voltmeter to the TP64 on the MONITOR board.
2. Adjust the RV602 so that the reading of digital voltmeter is 6.80 ± 0.04 V.

γ2 ADJUSTMENT

Connection:

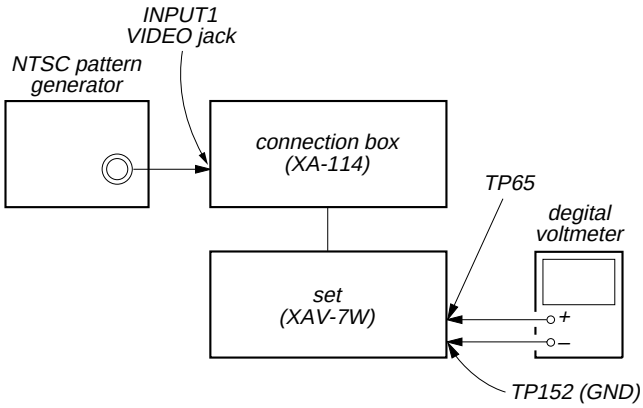


Adjusting Procedure:

1. Connect a digital voltmeter to the TP67 on the MONITOR board.
2. Adjust the RV213 so that the reading of digital voltmeter is 2.50 ± 0.04 V.

γ0 ADJUSTMENT

Connection:

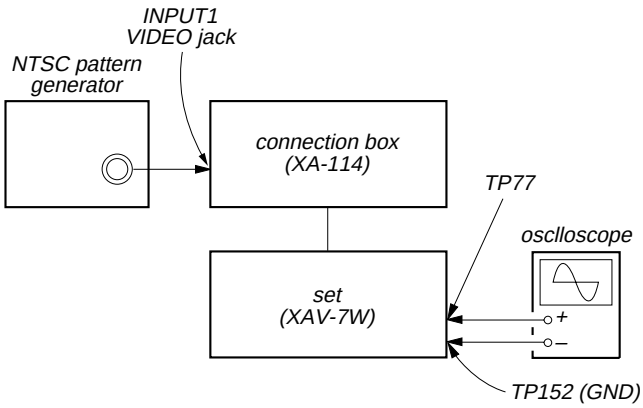


Adjusting Procedure:

1. Connect a digital voltmeter to the TP65 on the MONITOR board.
2. Adjust the RV212 so that the reading of digital voltmeter is 2.51 ± 0.04 V.

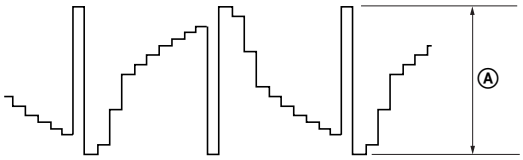
RGB AMP ADJUSTMENT

Connection:



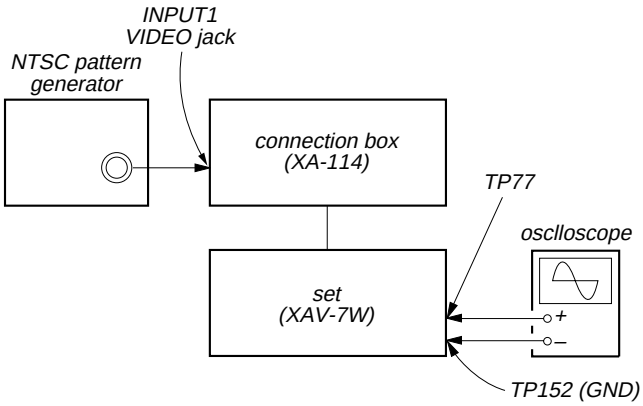
Adjusting Procedure:

1. Connect an oscilloscope to the TP77 on the MONITOR board.
2. Adjust the RV208 so that the Ⓐ level of the waveform on the oscilloscope is 4.80 ± 0.04 V.



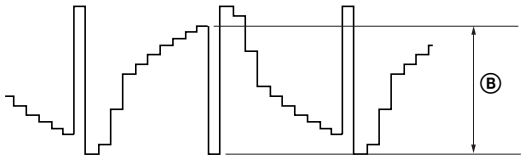
BRIGHT ADJUSTMENT

Connection:



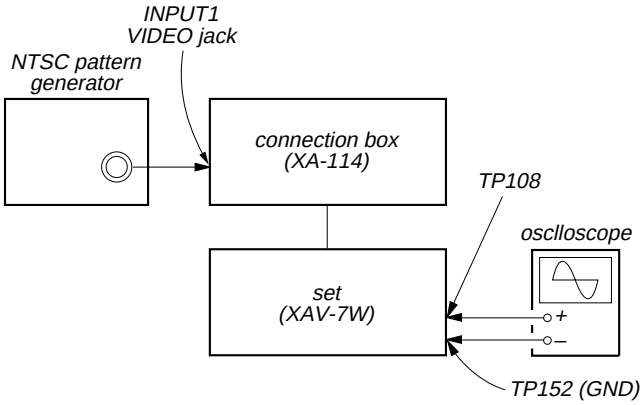
Adjusting Procedure:

1. Connect an oscilloscope to the TP77 on the MONITOR board.
2. Adjust the RV201 so that the Ⓑ level of the waveform on the oscilloscope is 4.20 ± 0.04 V.



V COM, V COM CENTER ADJUSTMENT

Connection:



Adjusting Procedure:

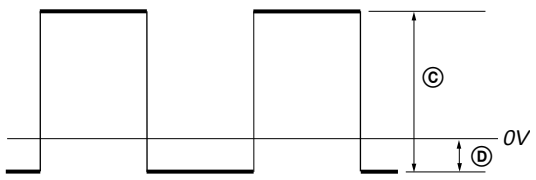
1. Connect an oscilloscope to the TP108 on the MONITOR board.

– V COM ADJUSTMENT –

2. Adjust the RV210 so that the Ⓒ level of the waveform on the oscilloscope is 8.40 ± 0.05 V.

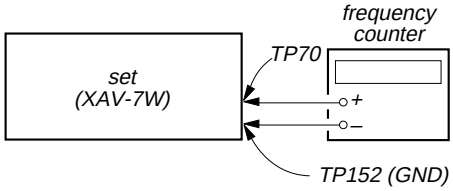
– V COM CENTER ADJUSTMENT –

3. Adjust the RV211 so that the Ⓓ level of the waveform on the oscilloscope is –2.40 ± 0.05 V.



FREE-RUN FREQUENCY ADJUSTMENT

Connection:

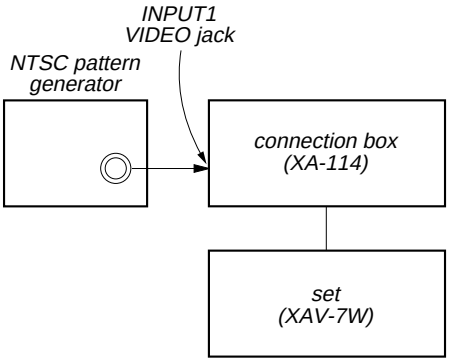


Adjusting Procedure:

1. Place the monitor in the no signal input status.
2. Connect a frequency counter to the TP70 on the MONITOR board.
3. Press the [SOURCE] button to activate the video mode.
4. Adjust the RV402 so that the reading of frequency counter is 15.37 ± 0.02 kHz.

H CENTER ADJUSTMENT

Connection:

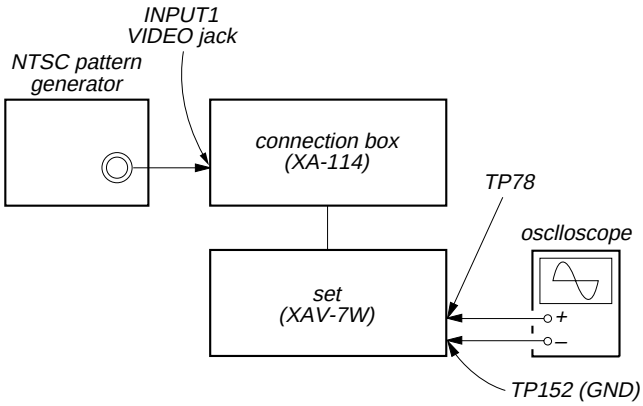


Adjusting Procedure:

1. Enter the monoscope (NTSC) signal from the pattern generator.
2. Press the [SOURCE] button to activate the video mode so as to display the monoscope on the monitor screen.
3. Adjust the RV401 so that the monoscope on the monitor screen is horizontally symmetric.

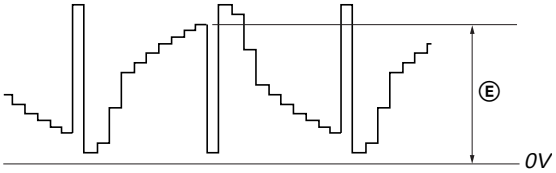
B SUB BRIGHT ADJUSTMENT

Connection:



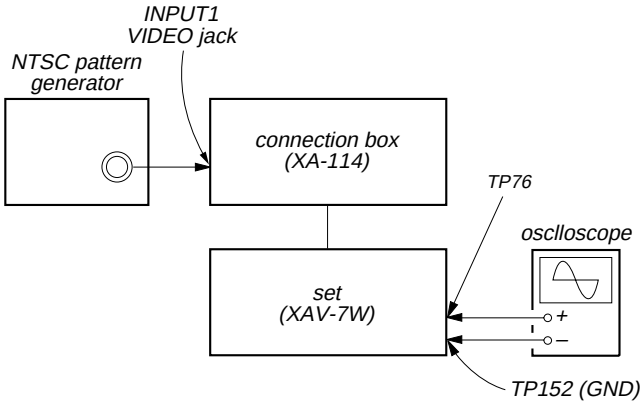
Adjusting Procedure:

1. Connect an oscilloscope to the TP78 on the MONITOR board.
2. Adjust the RV209 so that the Ⓔ level of the waveform on the oscilloscope is 4.00 ± 0.05 V.



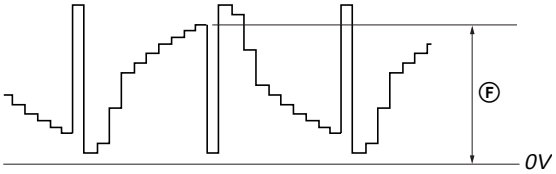
R SUB BRIGHT ADJUSTMENT

Connection:



Adjusting Procedure:

1. Connect an oscilloscope to the TP76 on the MONITOR board.
2. Adjust the RV207 so that the Ⓕ level of the waveform on the oscilloscope is 4.40 ± 0.05 V.

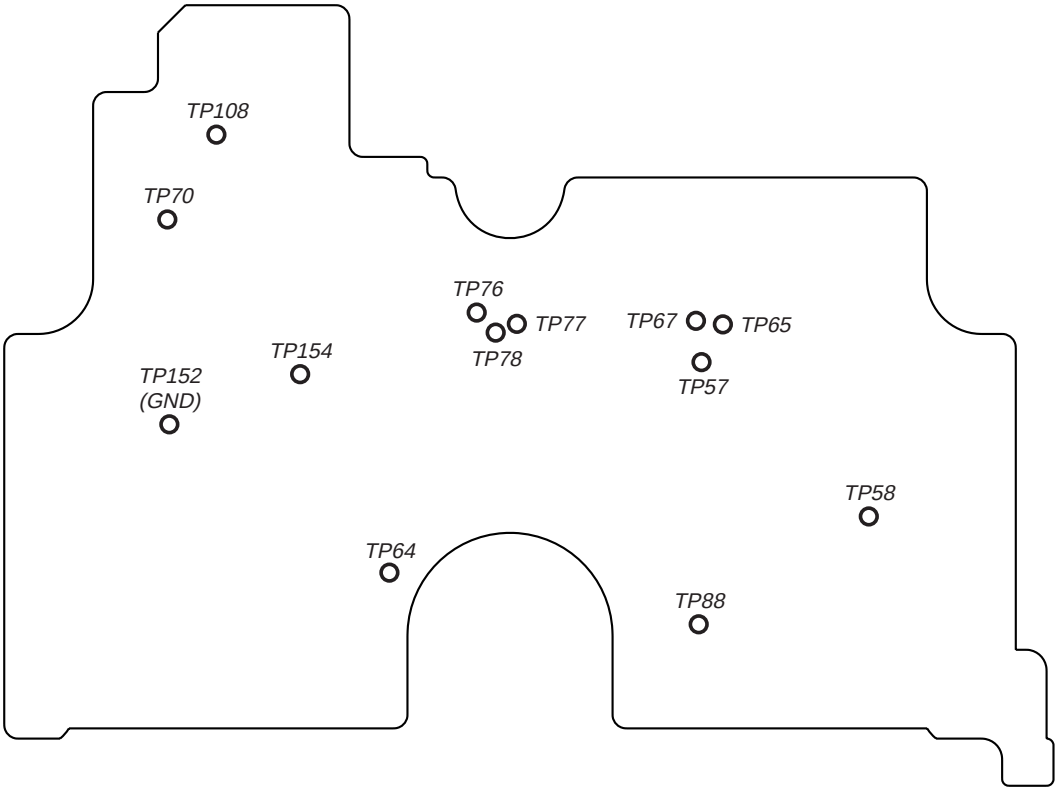


CHECKINIG AFTER ADJUSTMENT

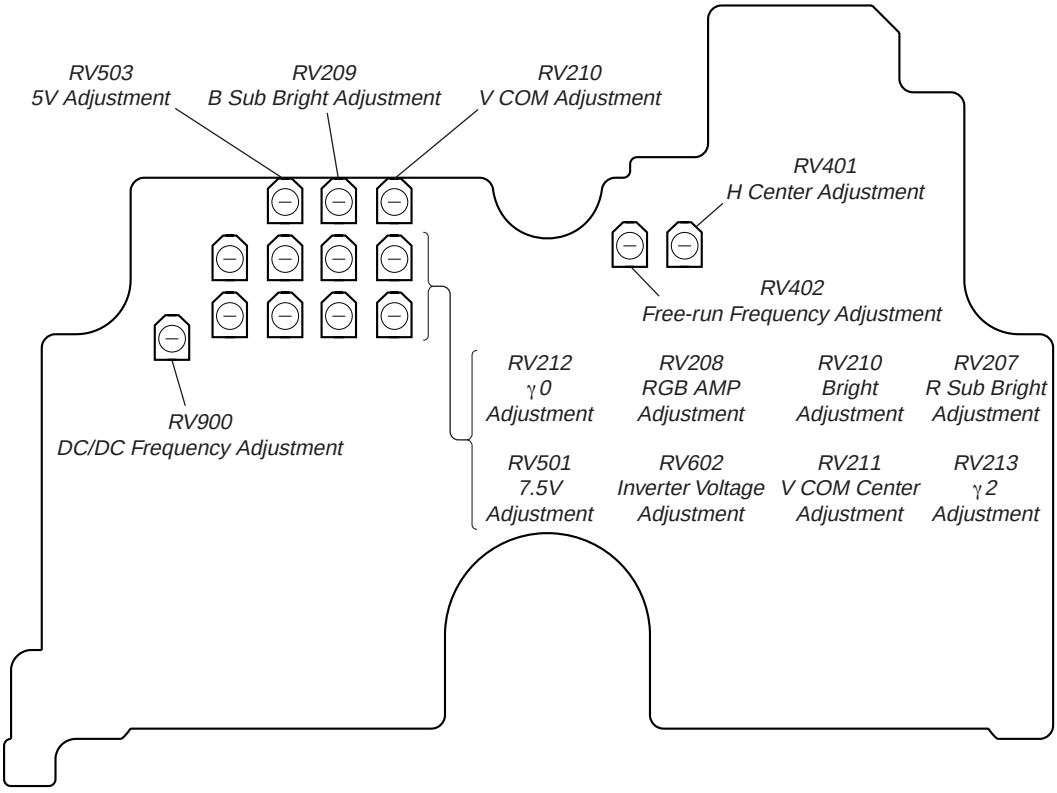
Enter color bars from the pattern generators for both NTSC and PAL signal systems to check that there is no problem in the liquid crystal display of the monitor in both signal systems.

Connecting and Adjustment Location:

– MONITOR BOARD (Component Side) –



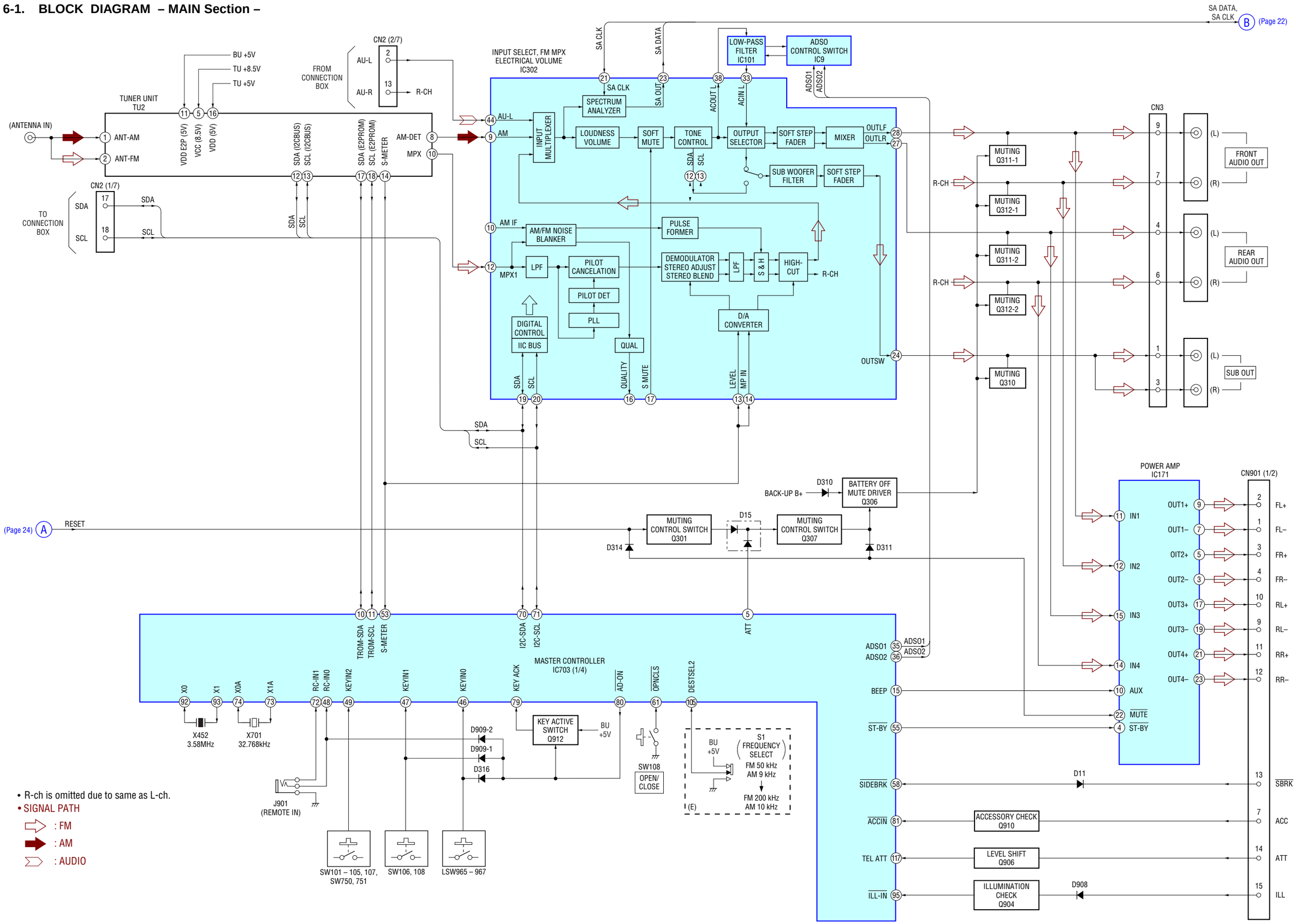
– MONITOR BOARD (Conductor Side) –



MEMO

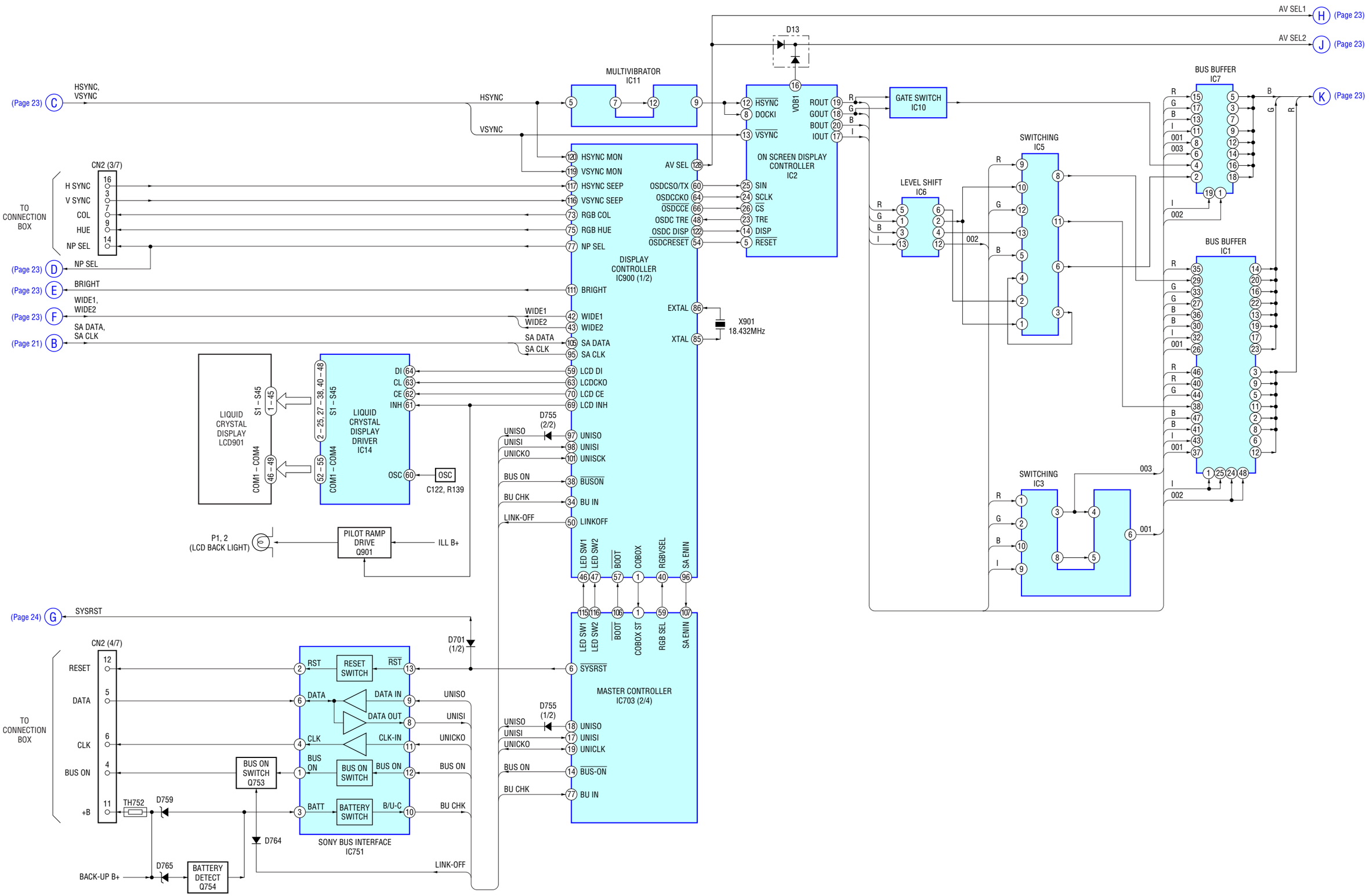
SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM – MAIN Section –

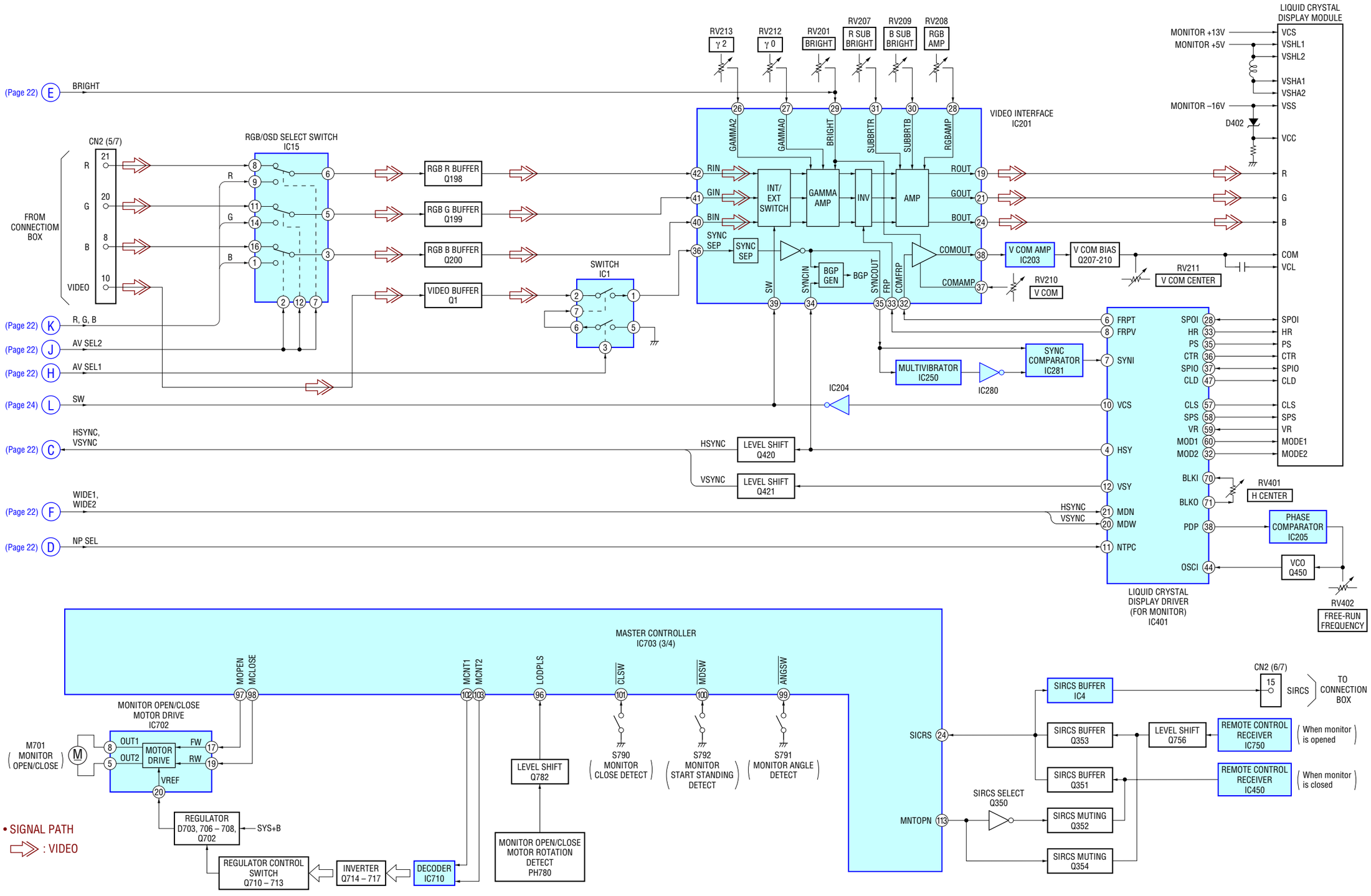


- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : FM
  - : AM
  - : AUDIO

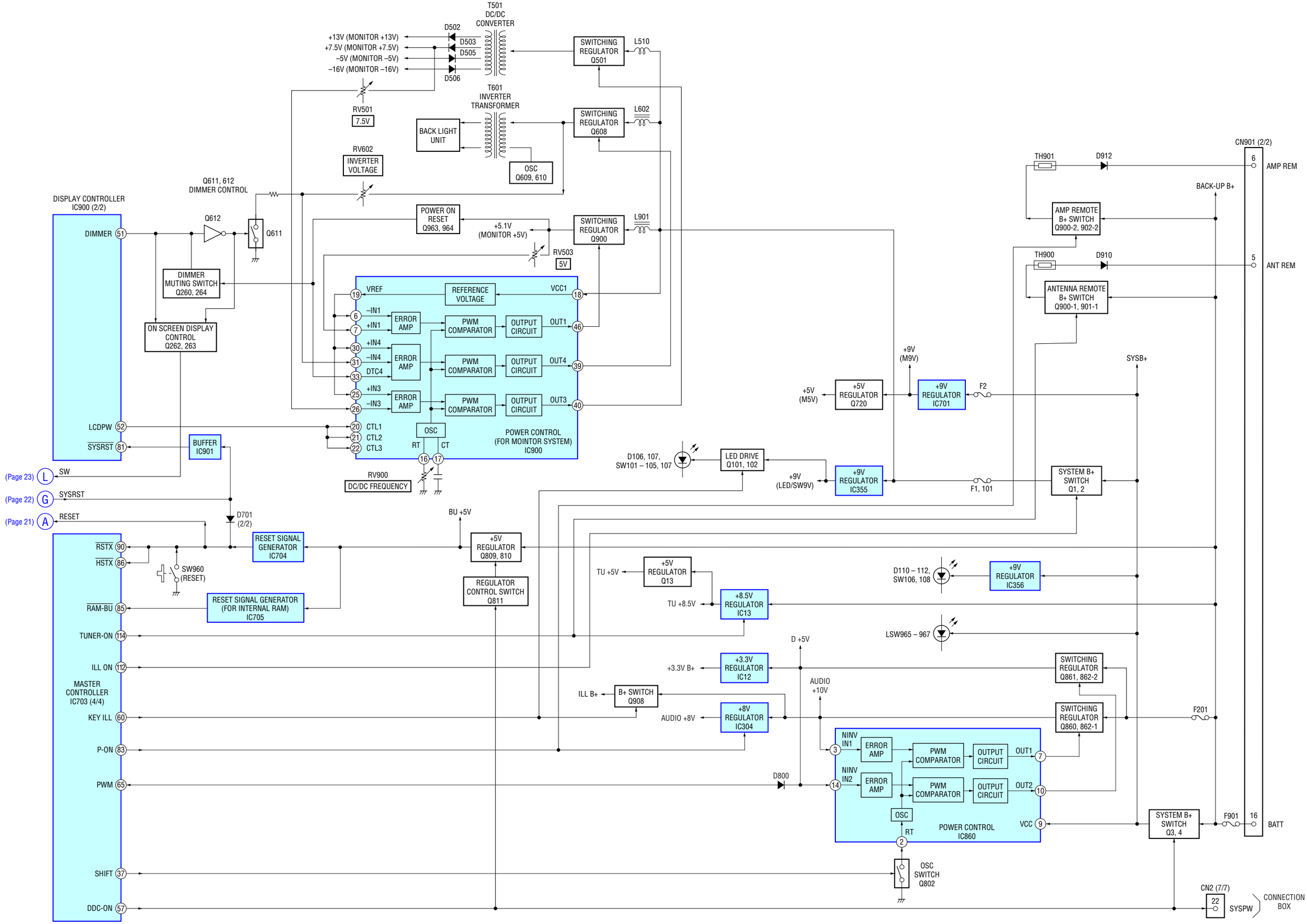
6-2. BLOCK DIAGRAM – DISPLAY/BUS CONTROL Section –



6-3. BLOCK DIAGRAM – MONITOR Section –



6-4. BLOCK DIAGRAM – POWER SUPPLY Section –



6-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- ▬ : B+ Line.
- ▬ ▬ : B– Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.

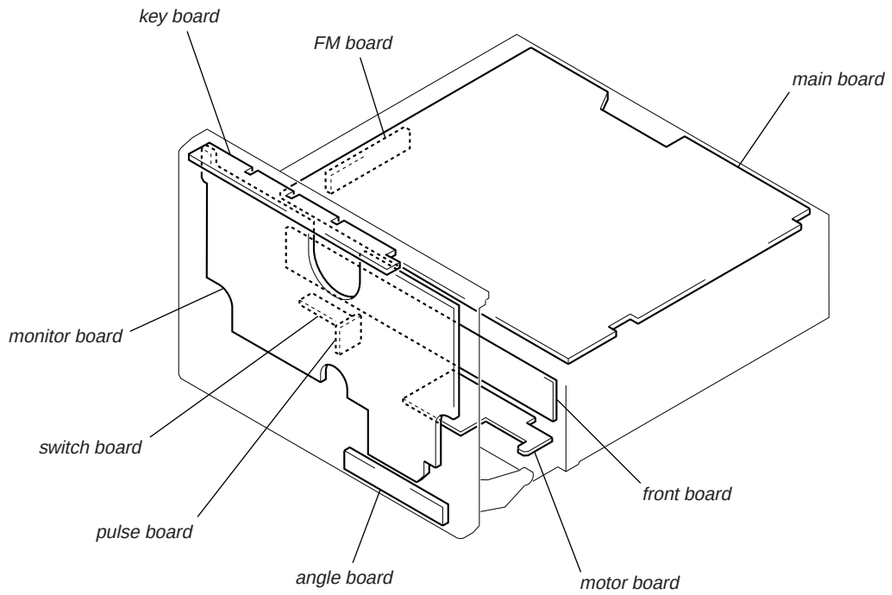
– MAIN/FRONT Boards –

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions or color bar signal input conditions.
  no mark : FM (Monitor is opened)
  ⟨⟨ ⟩⟩ : AM (Monitor is opened)
  ( ) : Color Bar Signal Input (Monitor is opened)
  [ ] : FM (Monitor is closed)
  ✻ : Impossible to measure

– Other Boards –

- Voltages and waveforms are dc with respect to ground under color bar signal input conditions.
  no mark : Color Bar Signal Input (Monitor is opened)
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM
  ⇨ : AUDIO
  ⇨ : VIDEO

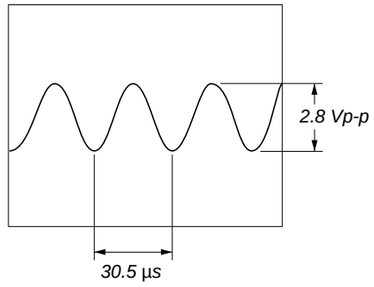
- **Circuit Boards Location**



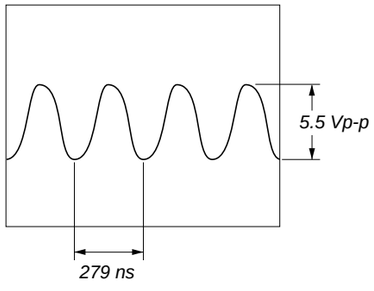
• Waveforms

– MAIN Board –

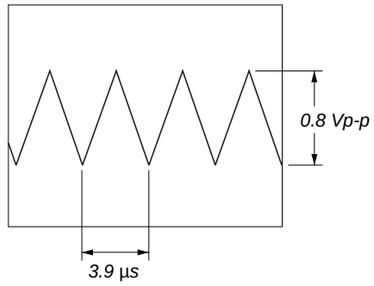
❶ IC703 ㉝ (X1A)



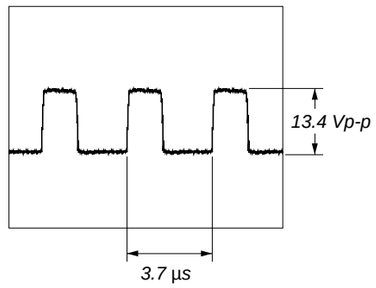
❷ IC703 ㉝ (X1)



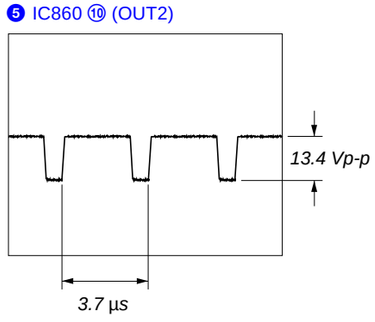
❸ IC860 ① (CT)



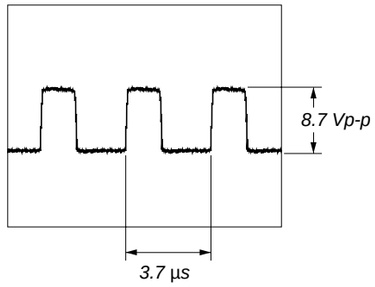
❹ IC860 ⑦ (OUT1)



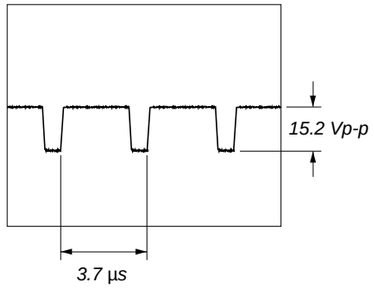
❺ IC860 ⑩ (OUT2)



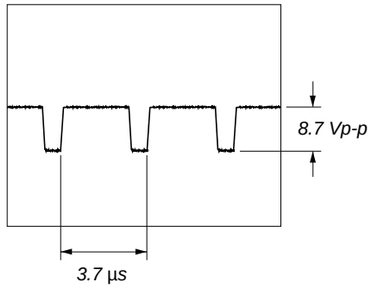
❻ Q862 (1/2) (Gate)



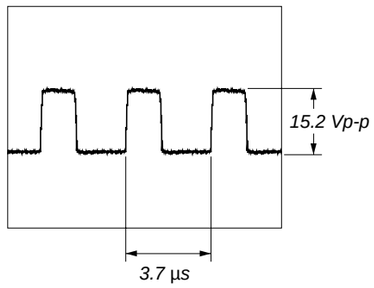
❼ Q862 (1/2) (Drain)



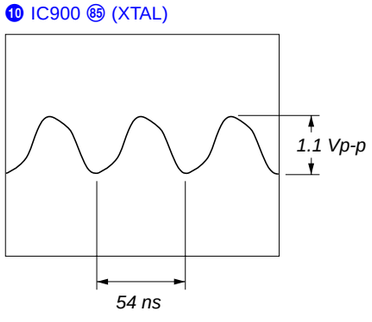
❽ Q862 (2/2) (Gate)



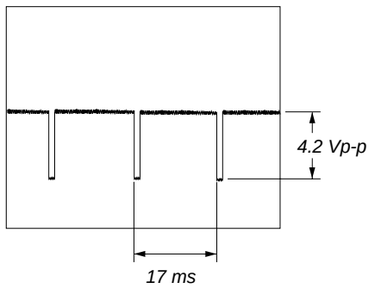
❾ Q862 (2/2) (Drain)



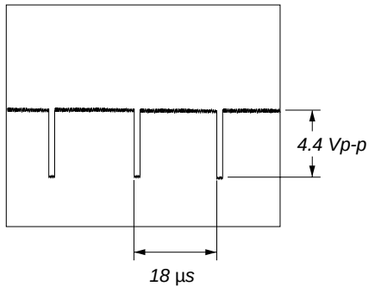
❿ IC900 ㉟ (XTAL)



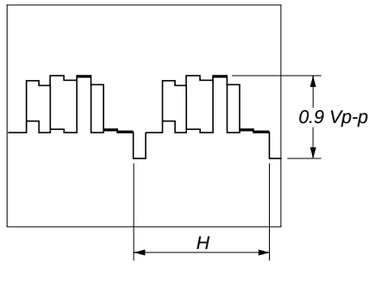
⓫ IC900 ⑯ (VSYNC SEEP), ⑲ (VSYNC MON)



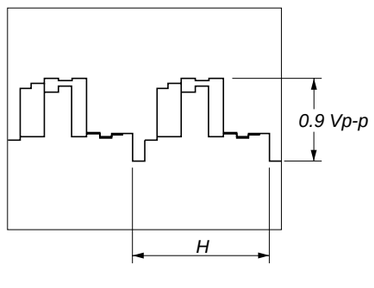
⓬ IC900 ⑰ (HSYNC SEEP), ⑱ (HSYNC MON)



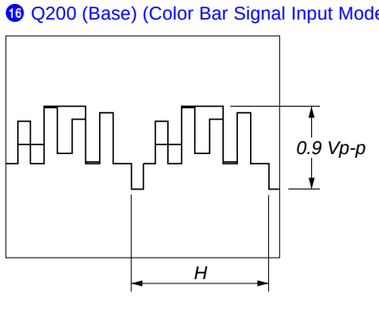
⓭ Q198 (Base) (Color Bar Signal Input Mode)



⓯ Q199 (Base) (Color Bar Signal Input Mode)

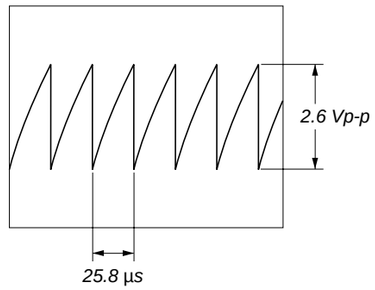


⓰ Q200 (Base) (Color Bar Signal Input Mode)

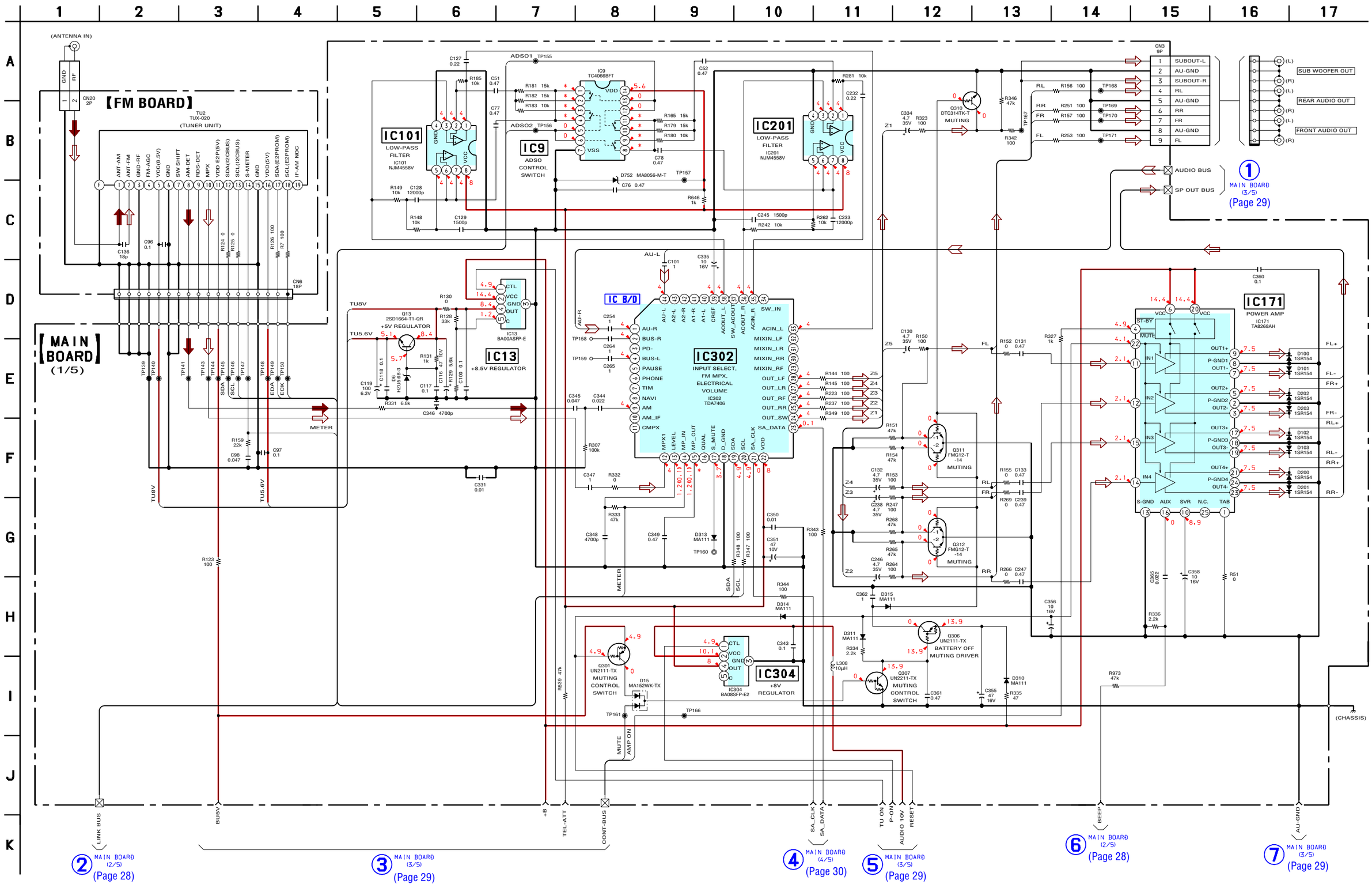


– FRONT Board –

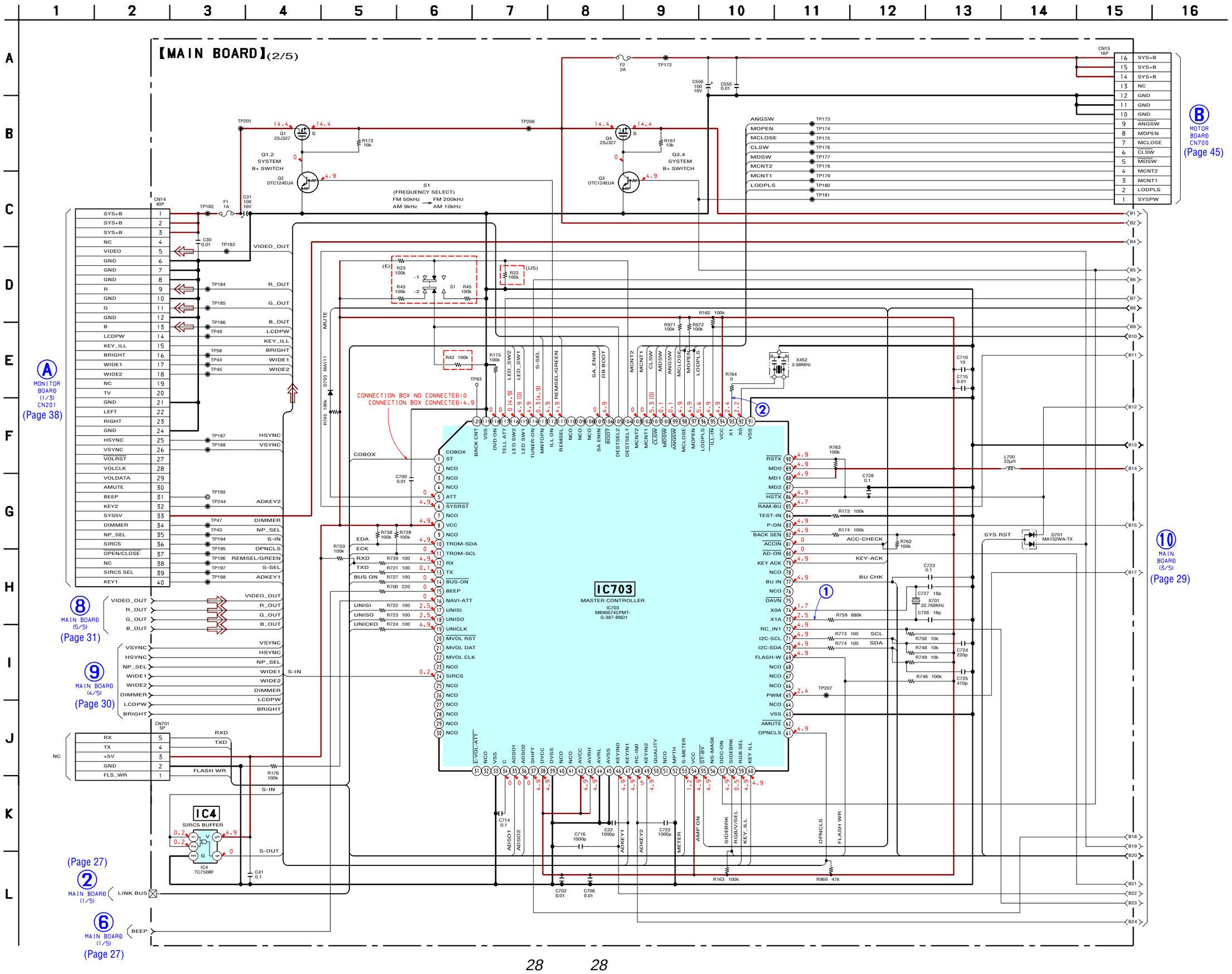
㉑ IC14 ㊿ (OSC)



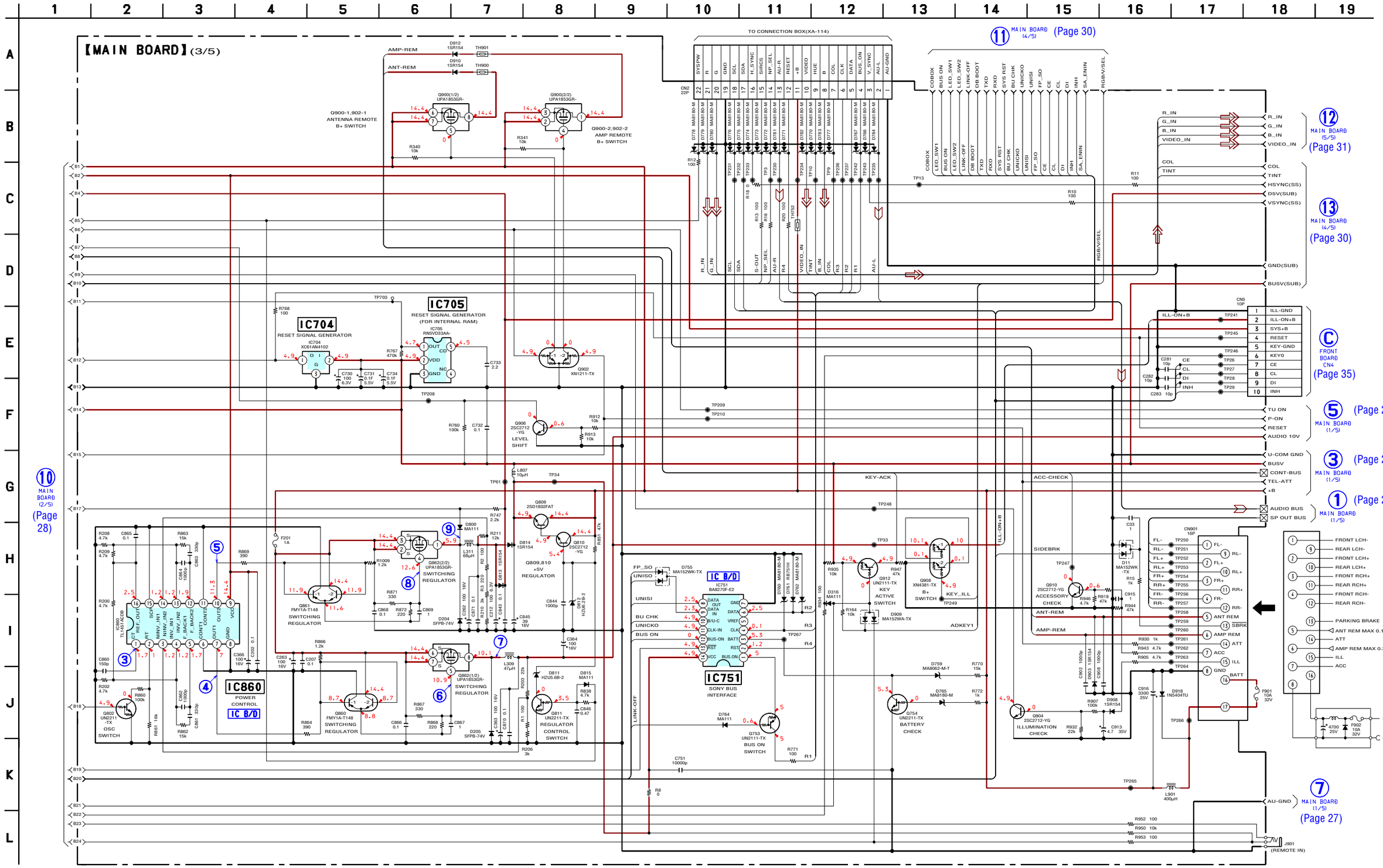
6-6. SCHEMATIC DIAGRAM – FM/MAIN (1/5) Boards – • See page 47 for IC Block Diagram.



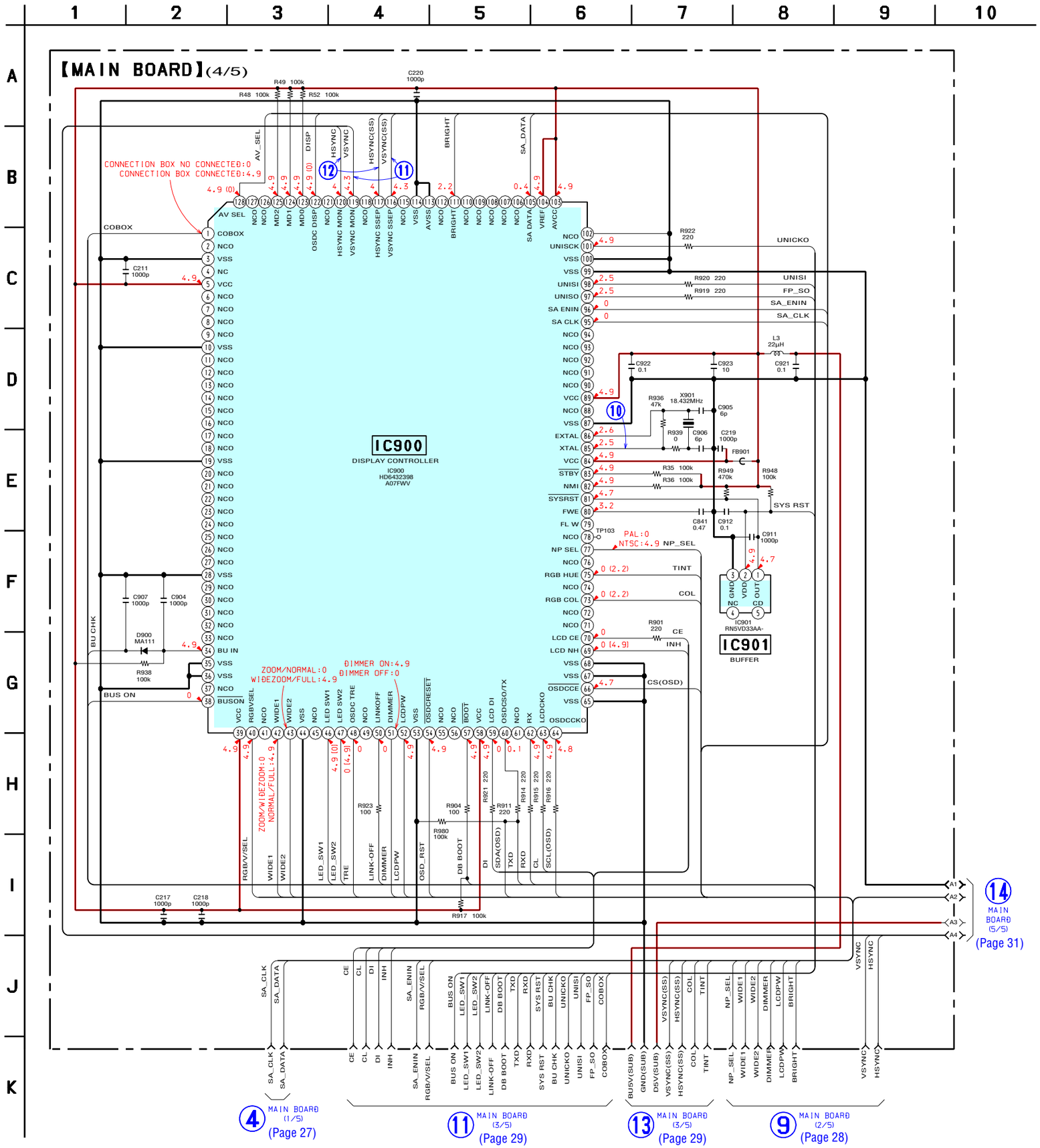
6-7. SCHEMATIC DIAGRAM – MAIN Board (2/5) – • See page 26 for Waveforms.



6-8. SCHEMATIC DIAGRAM – MAIN Board (3/5) – • See page 26 for Waveforms. • See page 47 for IC Block Diagram.

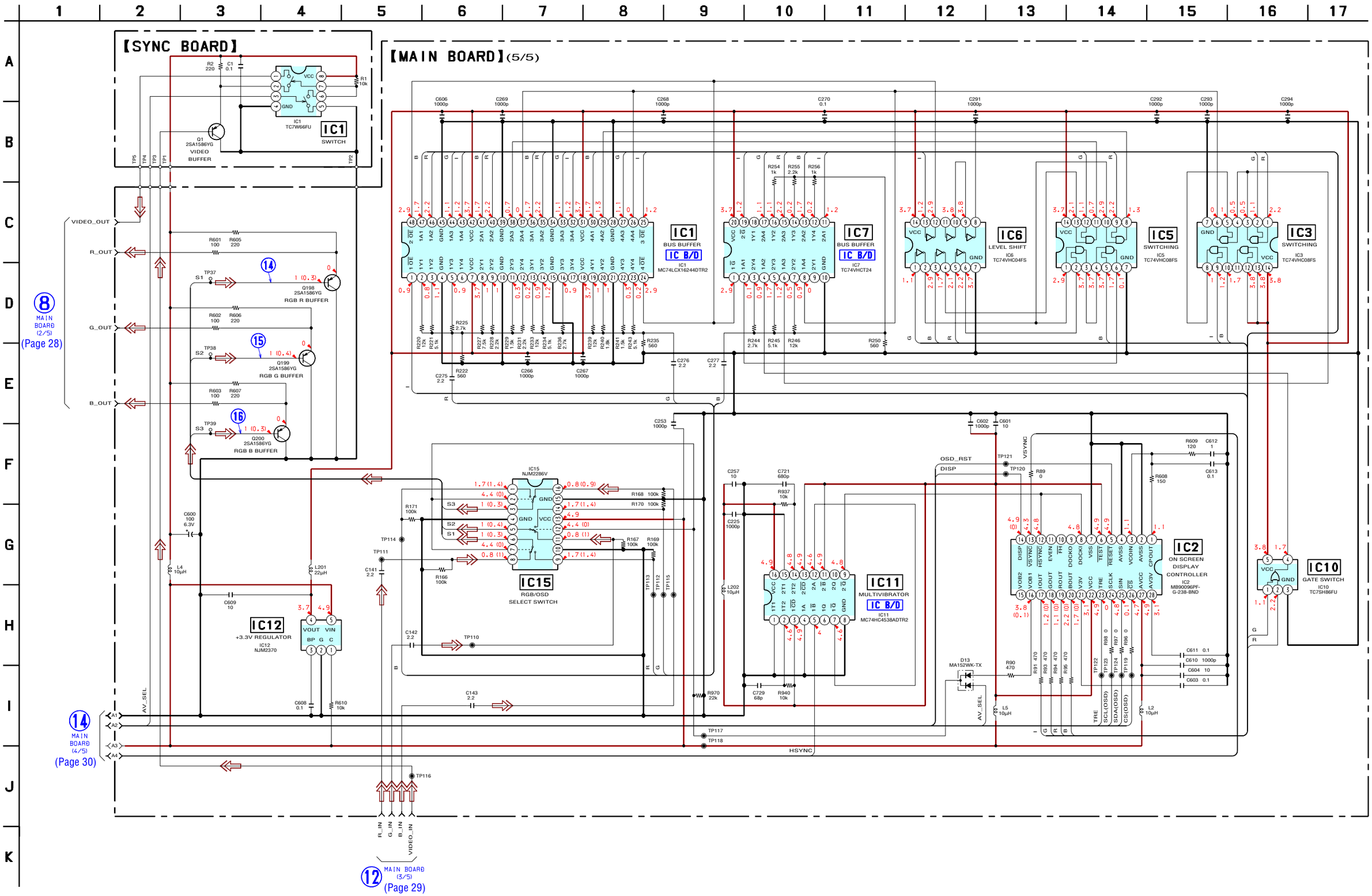


6-9. SCHEMATIC DIAGRAM – MAIN Board (4/5) – • See page 26 for Waveforms.



6-10. SCHEMATIC DIAGRAM – MAIN (5/5)/SYNC Boards –

• See page 26 for Waveforms. • See page 47 for IC Block Diagrams.

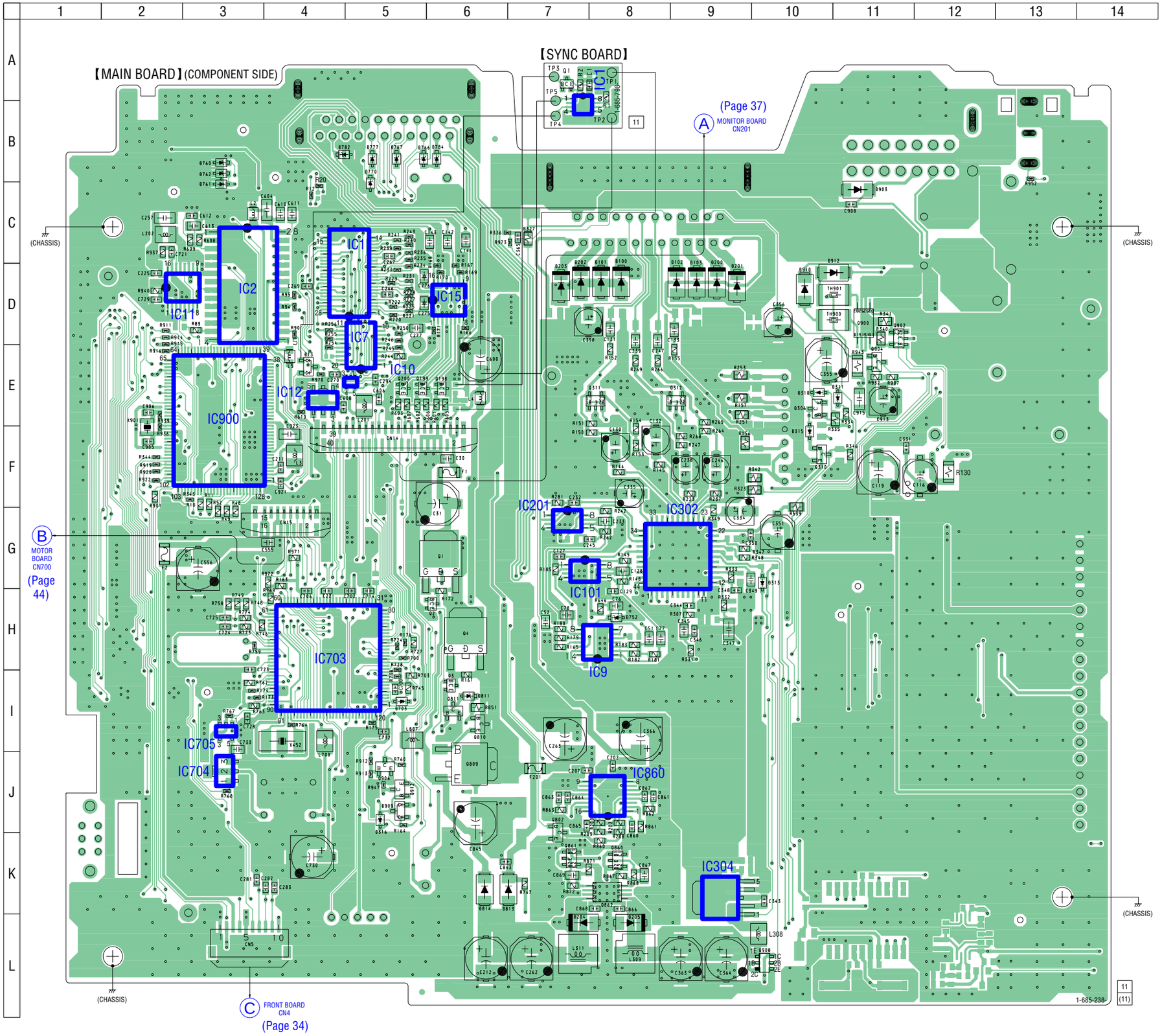


6-11. PRINTED WIRING BOARDS – MAIN (Component Side)/SYNC Boards – • See page 25 for Circuit Boards Location.

• **Semiconductor Location**

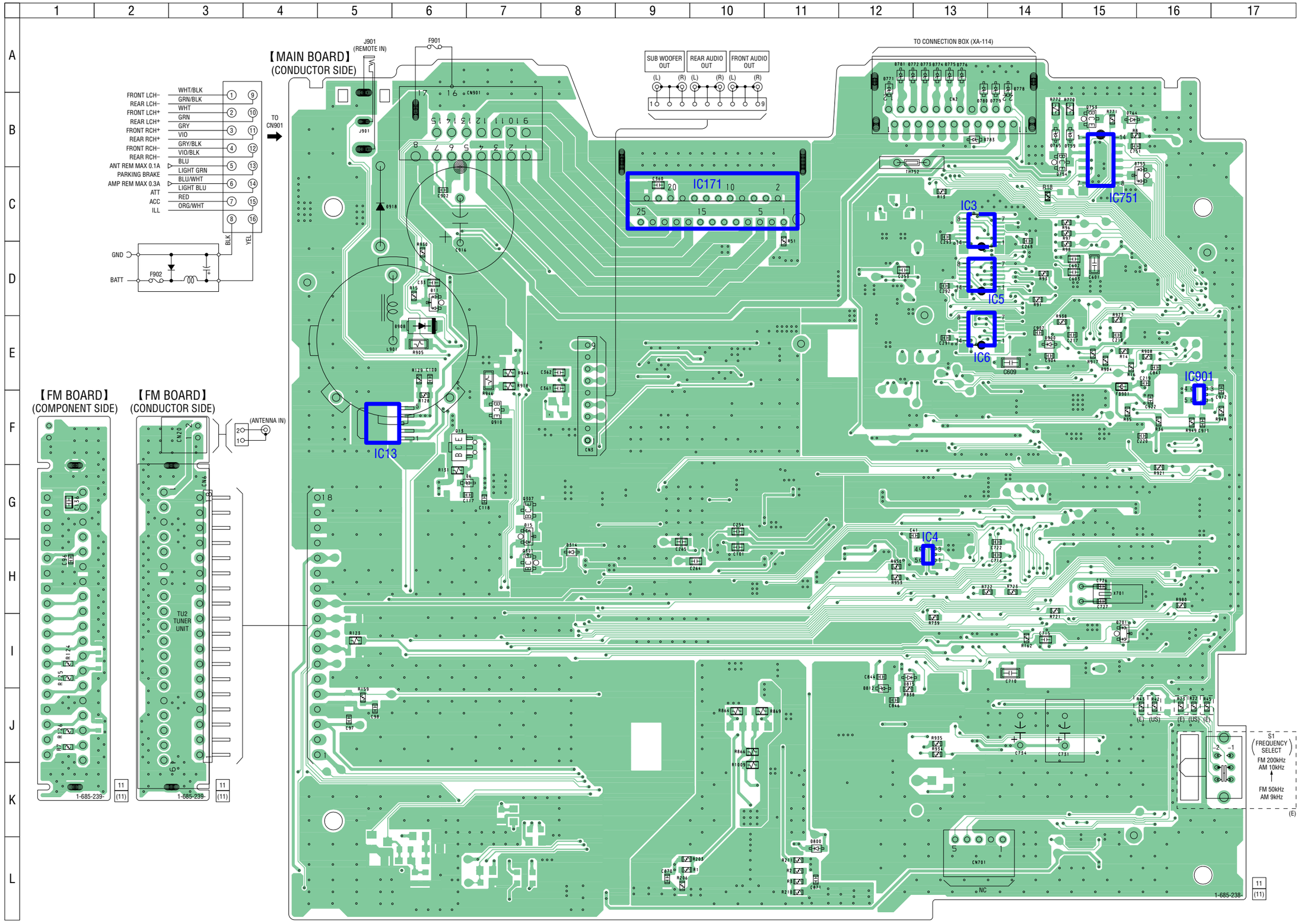
Ref. No.	Location	Ref. No.	Location
D13	E-4	IC10	E-5
D100	D-8	IC11	D-2
D101	D-8	IC12	E-4
D102	D-9	IC15	D-6
D103	D-9	IC101	G-7
D200	D-9	IC201	G-7
D201	D-9	IC302	G-9
D202	D-7	IC304	K-9
D203	D-7	IC703	H-4
D204	L-7	IC704	J-3
D205	L-8	IC705	I-3
D310	E-10	IC860	J-8
D311	E-11	IC900	E-3
D313	G-10		
D315	F-10	Q1	G-6
D316	J-5	*Q1	A-7
D703	I-5	Q2	H-5
D752	H-8	Q3	I-6
D760	B-3	Q4	H-6
D761	C-3	Q198	E-6
D762	B-3	Q199	E-5
D766	B-5	Q200	E-5
D767	B-5	Q306	E-10
D770	C-5	Q310	F-10
D777	B-5	Q311	E-8
D782	B-4	Q312	E-9
D784	B-6	Q802	J-7
D811	I-6	Q809	J-6
D813	K-7	Q810	I-6
D814	K-6	Q811	I-6
D903	C-11	Q860	K-8
D909	J-5	Q861	K-7
D910	D-10	Q862	K-8
D912	D-11	Q900	D-11
		Q902	D-11
IC1	D-5	Q904	E-11
*IC1	B-7	Q906	J-5
IC2	D-3	Q908	L-10
IC7	D-5	Q912	J-5
IC9	H-8		

* SYNC board



6-12. PRINTED WIRING BOARDS – FM/MAIN (Conductor Side) Boards –

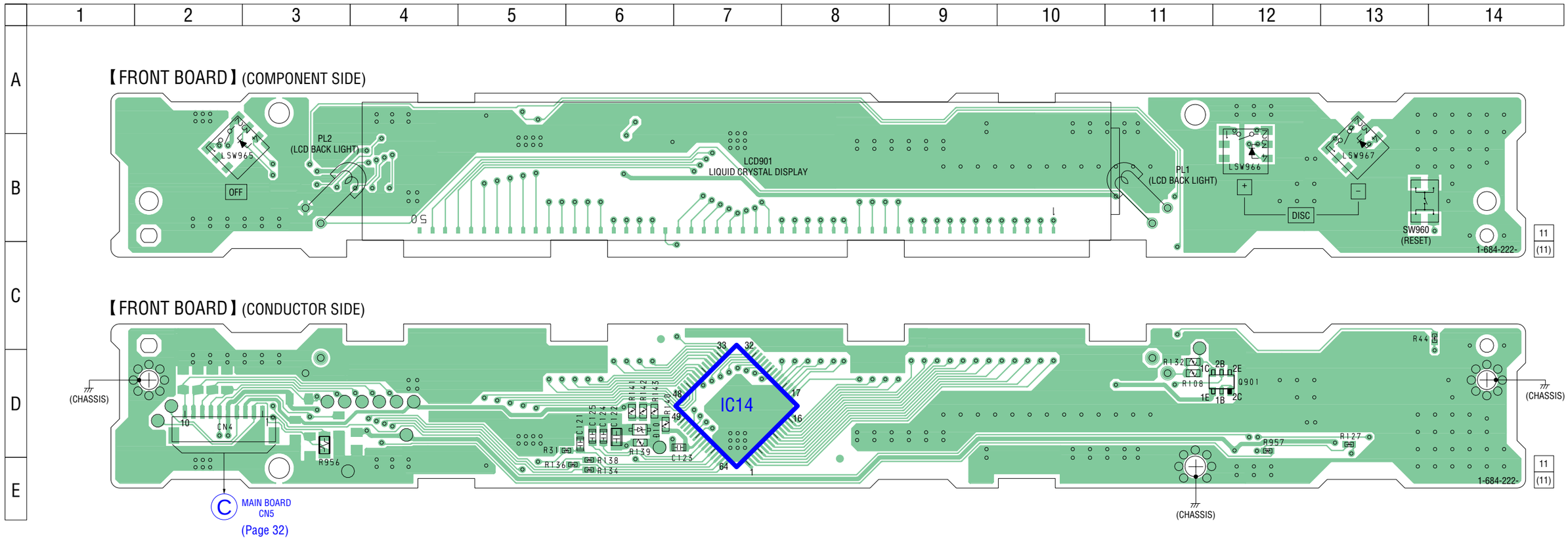
• See page 25 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location
D6	G-7
D11	D-6
D15	G-7
D314	H-8
D701	I-15
D755	C-16
D759	B-15
D764	B-15
D765	B-14
D771	A-12
D772	A-12
D773	A-13
D774	A-13
D775	A-13
D776	A-13
D778	A-14
D779	A-14
D780	A-13
D781	A-12
D783	B-13
D800	L-11
D812	J-12
D815	I-12
D900	E-14
D908	E-6
D918	C-5
IC3	C-13
IC4	H-13
IC5	D-13
IC6	E-13
IC13	F-5
IC171	C-10
IC751	B-15
IC901	F-16
Q13	F-6
Q301	H-7
Q307	G-7
Q753	B-15
Q754	B-14
Q910	F-7

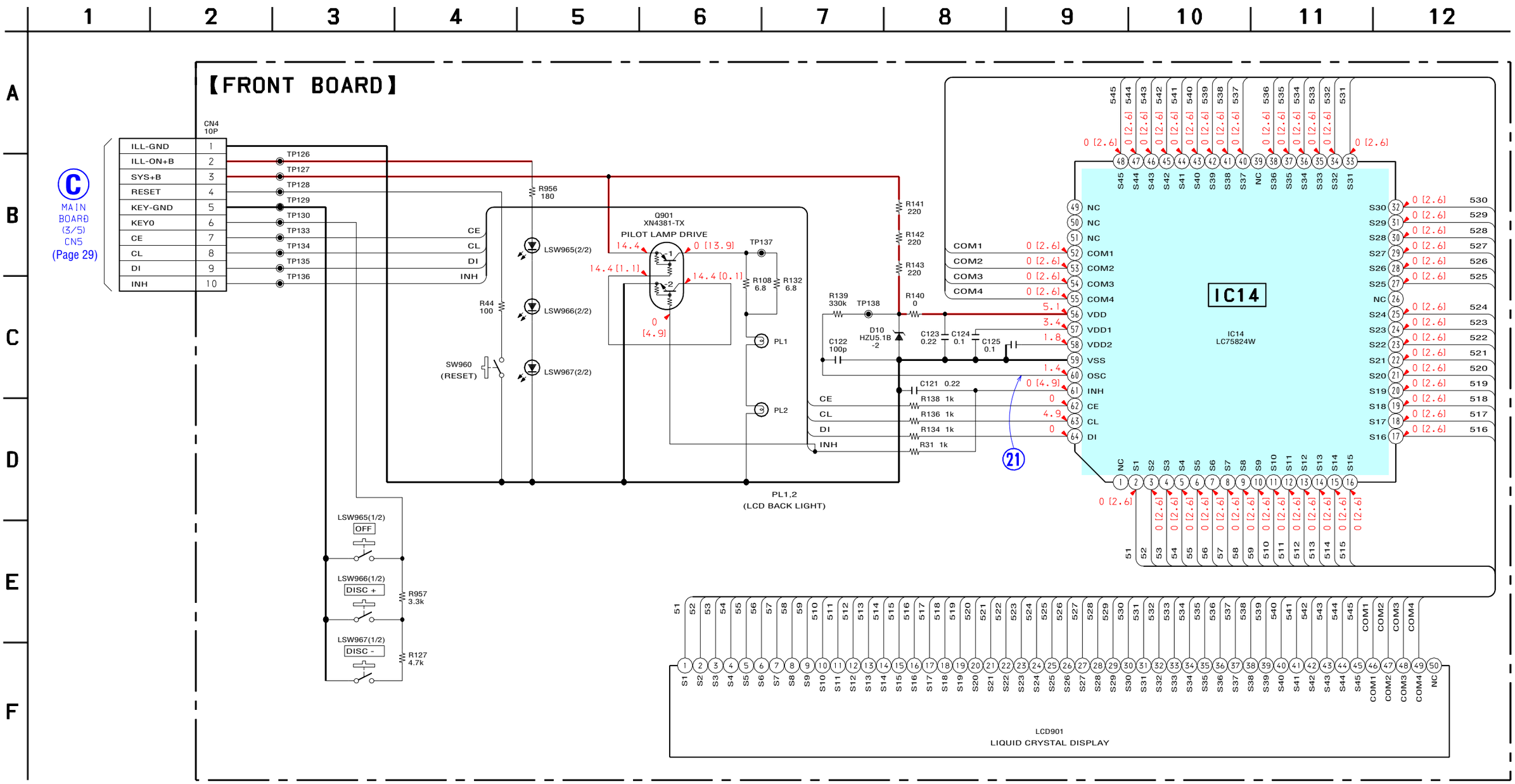
6-13. PRINTED WIRING BOARD – FRONT Board – • See page 25 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location
D10	D-6
IC14	D-7
Q901	D-12

6-14. SCHEMATIC DIAGRAM – FRONT Board – • See page 26 for Waveform.

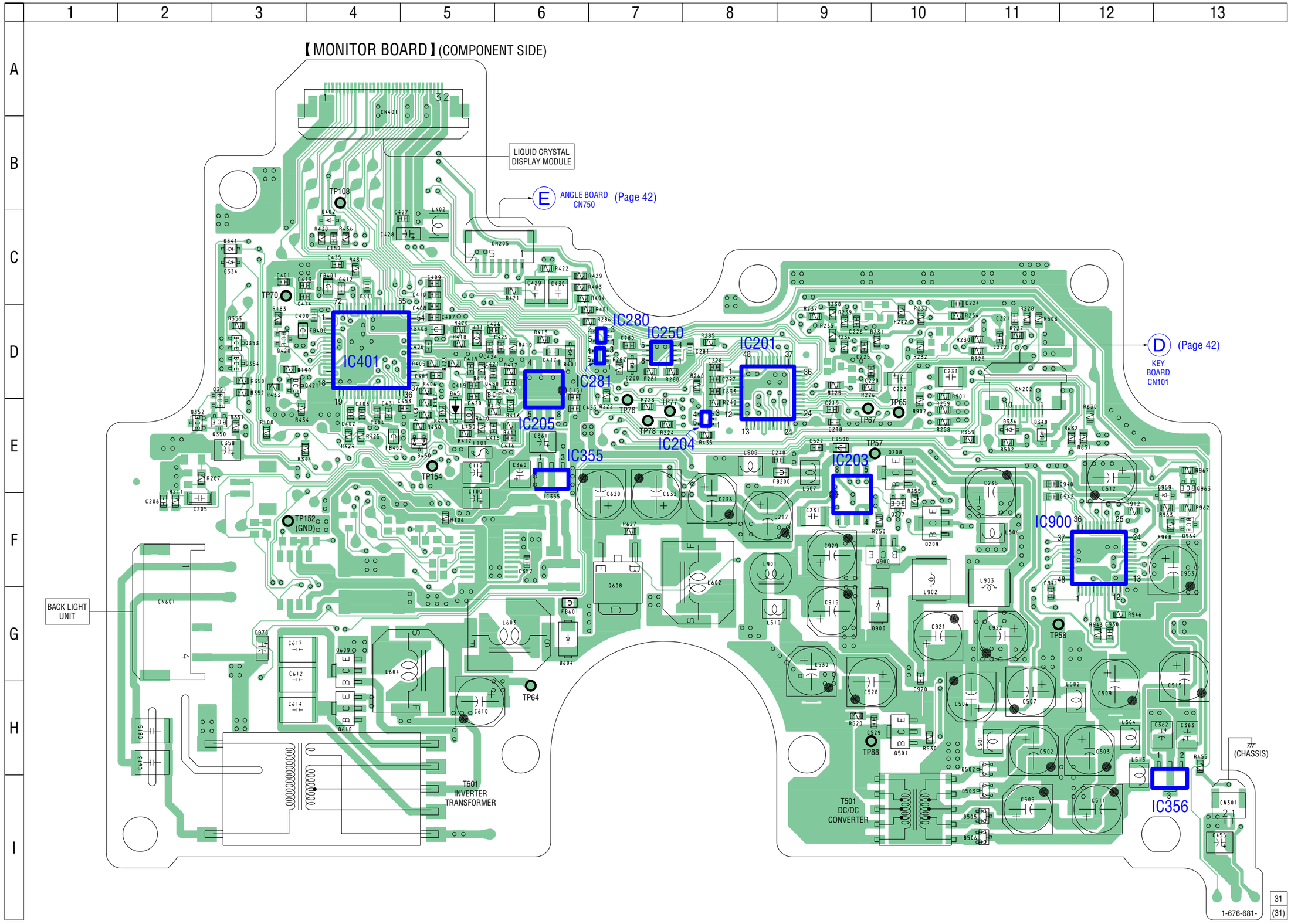


6-15. PRINTED WIRING BOARD – MONITOR Board (Component Side) –

• See page 25 for Circuit Boards Location.

• **Semiconductor Location**

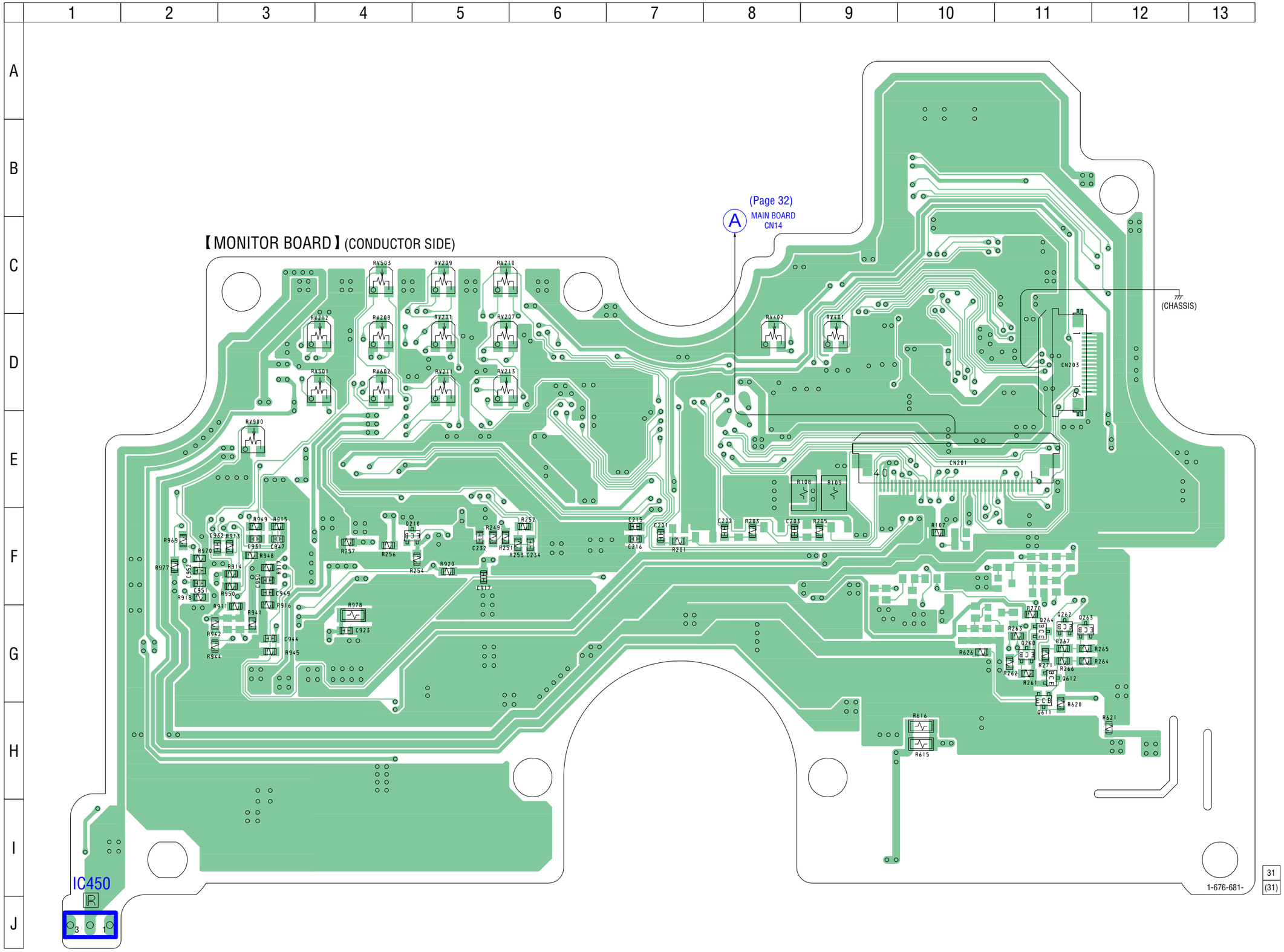
Ref. No.	Location
D280	D-7
D334	C-3
D336	E-11
D340	E-11
D341	C-3
D401	D-6
D402	C-4
D450	E-5
D451	E-5
D502	H-11
D503	I-11
D505	I-11
D506	I-11
D604	G-6
D900	G-10
D959	F-13
IC201	D-8
IC203	F-9
IC204	E-8
IC205	D-6
IC250	D-7
IC280	D-7
IC281	D-7
IC355	E-6
IC356	I-13
IC401	D-4
IC900	F-12
Q207	F-10
Q208	E-10
Q209	F-10
Q350	E-3
Q351	E-3
Q352	E-2
Q353	D-3
Q354	D-3
Q420	D-3
Q421	D-3
Q450	D-5
Q501	H-10
Q608	F-7
Q609	G-4
Q610	H-4
Q900	F-10
Q963	E-13
Q964	F-13



6-16. PRINTED WIRING BOARD – MONITOR Board (Conductor Side) –

• See page 25 for Circuit Boards Location.

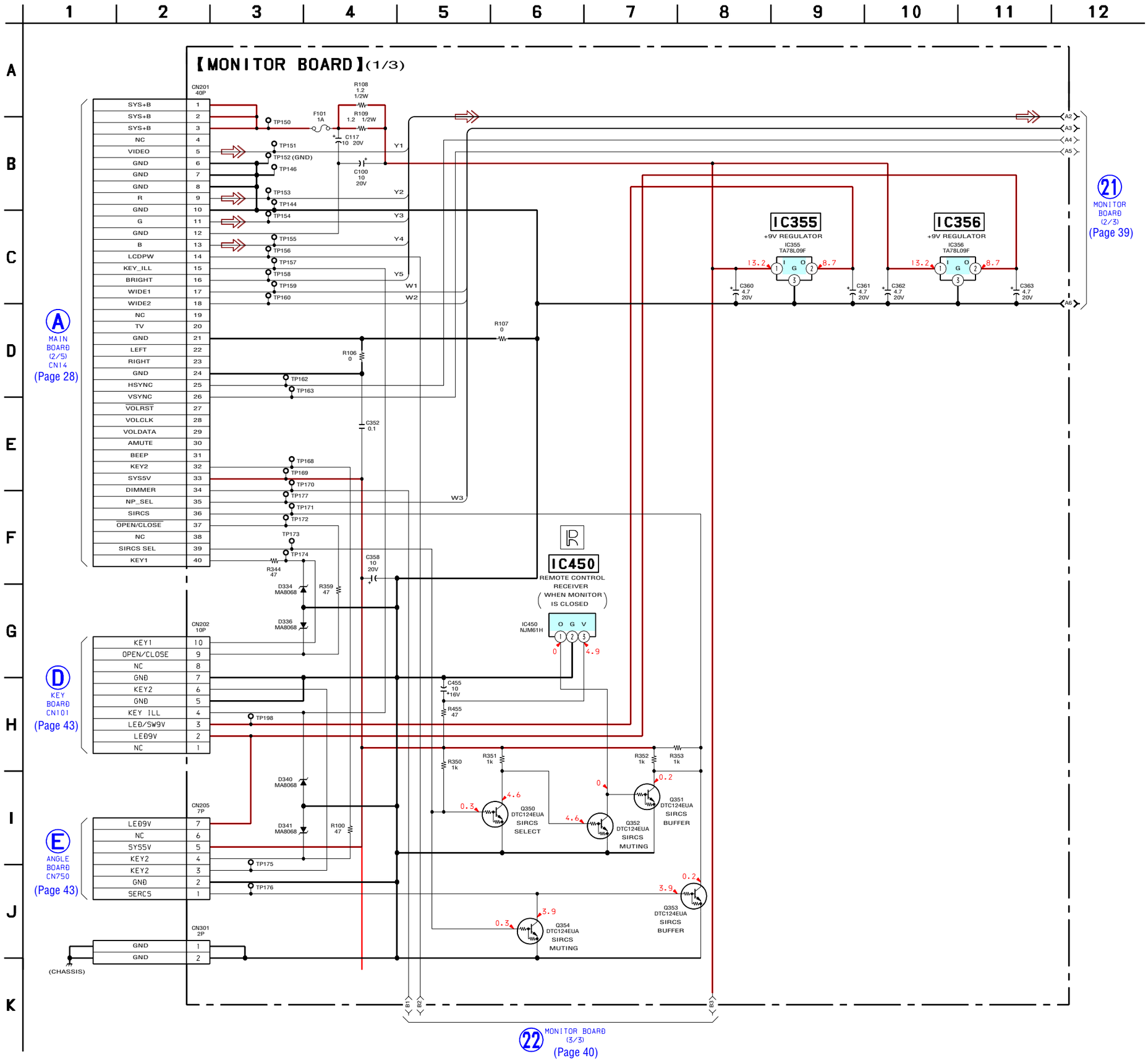
【MONITOR BOARD】(CONDUCTOR SIDE)



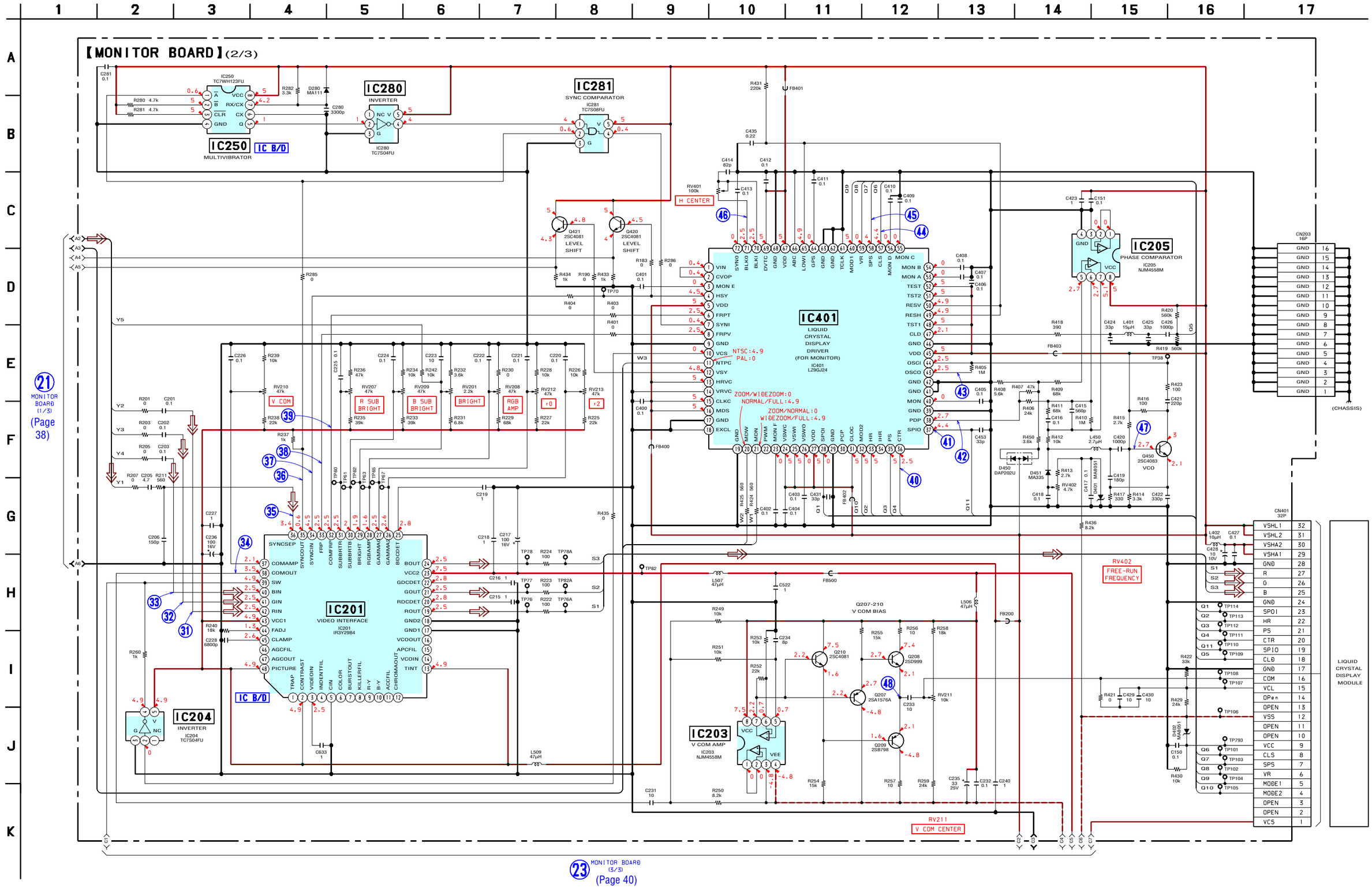
• **Semiconductor Location**

Ref. No.	Location
IC450	J-1
Q210	F-4
Q260	G-11
Q262	G-11
Q263	G-11
Q264	G-11
Q611	G-11
Q612	G-11

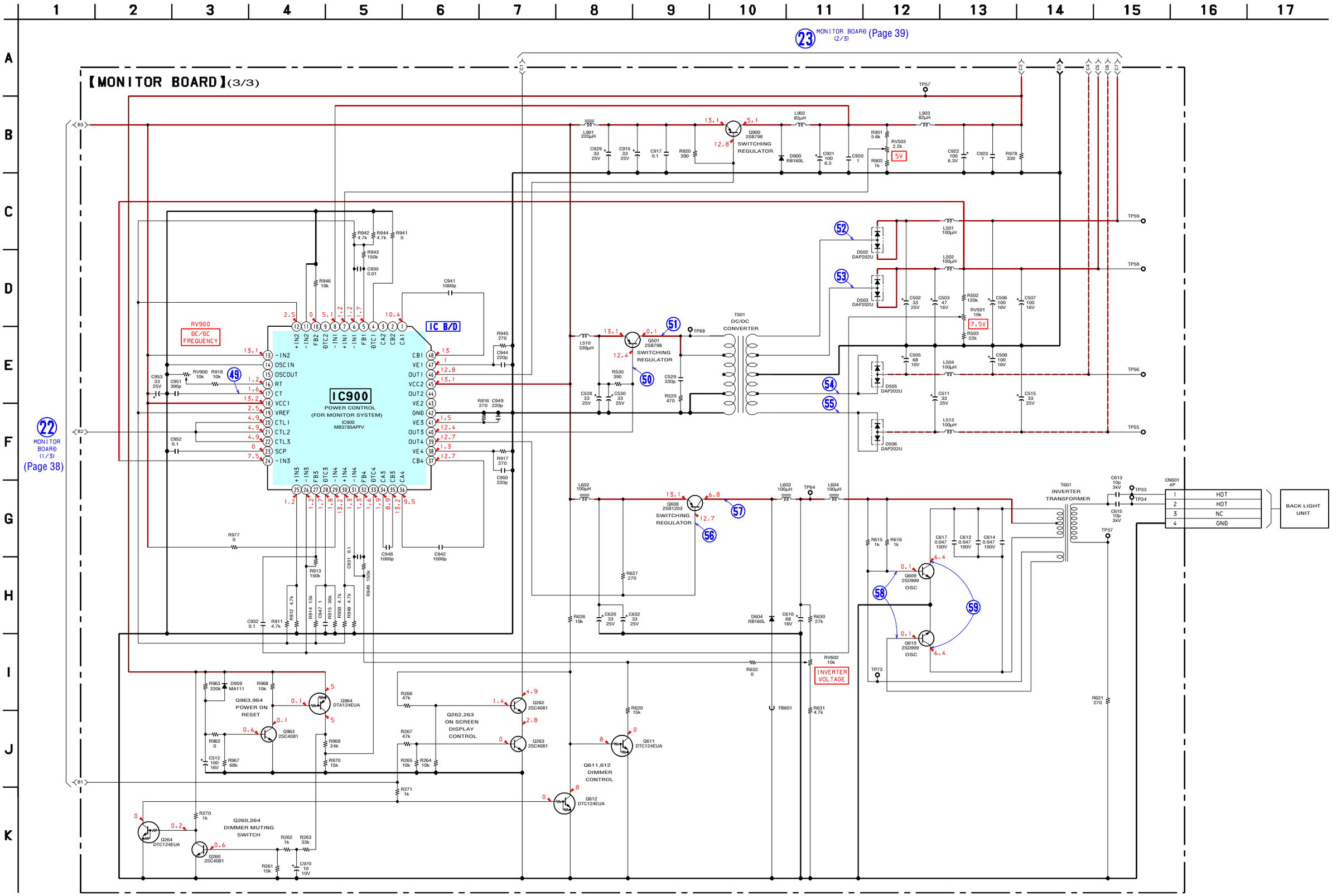
6-17. SCHEMATIC DIAGRAM – MONITOR Board (1/3) –



6-18. SCHEMATIC DIAGRAM – MONITOR Board (2/3) – • See page 41 for Waveforms. • See page 47 for IC Block Diagram.

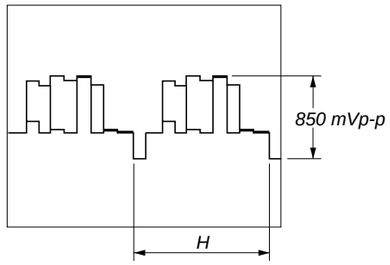


6-19. SCHEMATIC DIAGRAM – MONITOR Board (3/3) – • See page 41 for Waveforms. • See page 47 for IC Block Diagram.

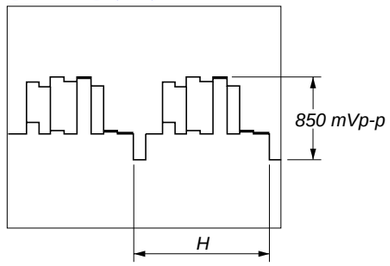


• Waveforms
– MONITOR Board –

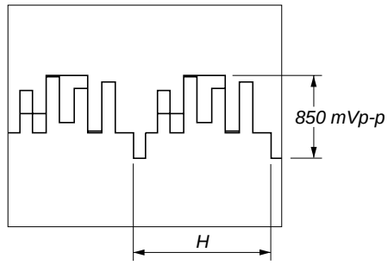
31 IC201 ㊷ (RIN)



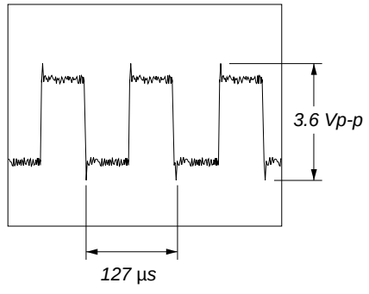
32 IC201 ㊶ (GIN)



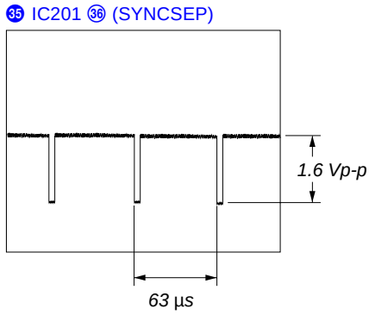
33 IC201 ㊵ (BIN)



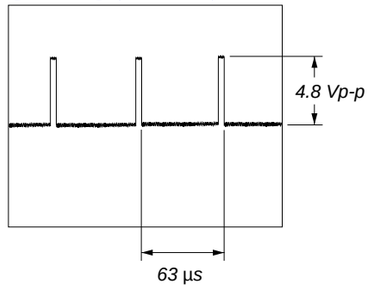
34 IC201 ㊳ (COMOUT)



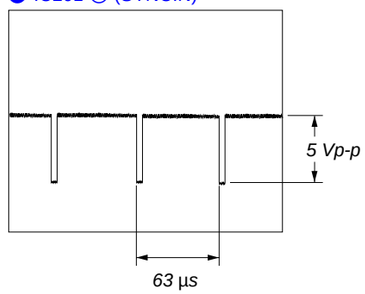
35 IC201 ㊱ (SYNCSEP)



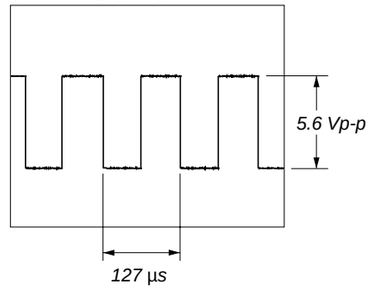
36 IC201 ㉟ (SYNCOUT)



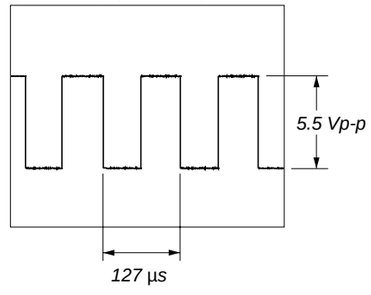
37 IC201 ㉞ (SYNCIN)



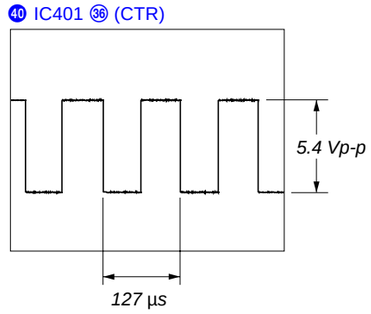
38 IC201 ㉝ (FRP)



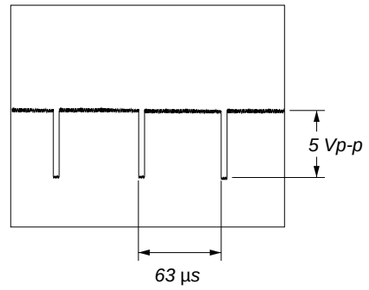
39 IC201 ㉜ (COMFRP)



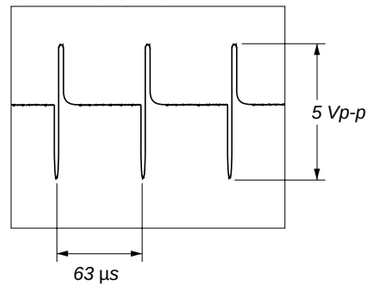
40 IC401 ㊱ (CTR)



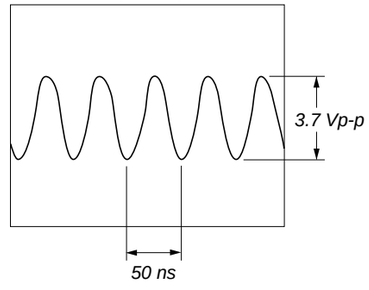
41 IC401 ㊲ (SPIO)



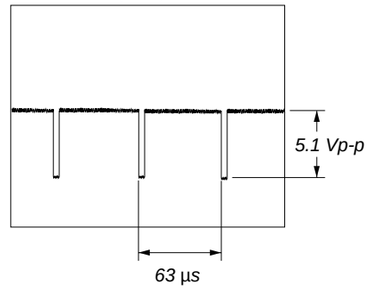
42 IC401 ㊳ (PDP)



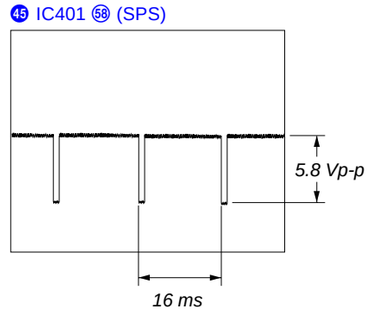
43 IC401 ㊸ (OSCO)



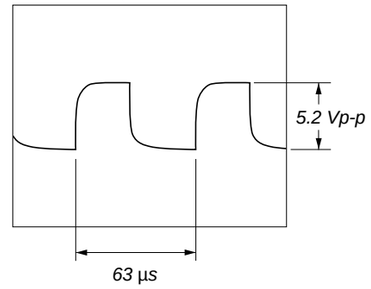
44 IC401 ㊼ (CLS)



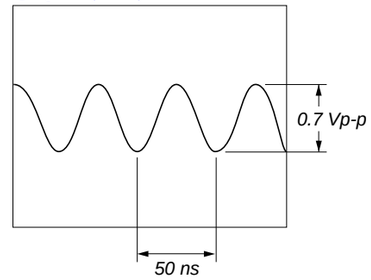
45 IC401 ㊽ (SPS)



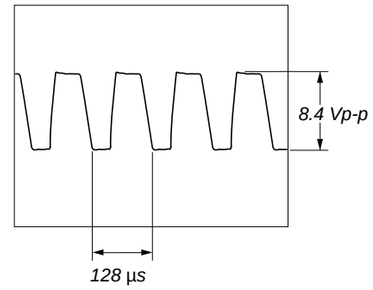
46 IC401 ㉑ (BLKO)



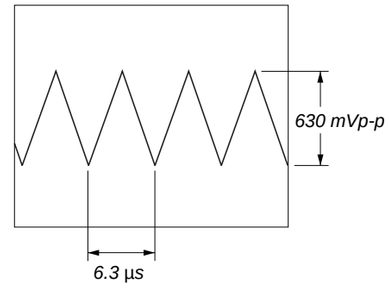
47 Q450 (Base)



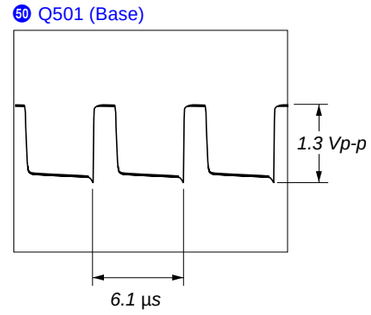
48 Q208, 209 (Emitter)



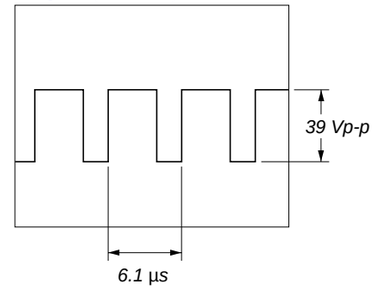
49 IC900 ⑰ (CT)



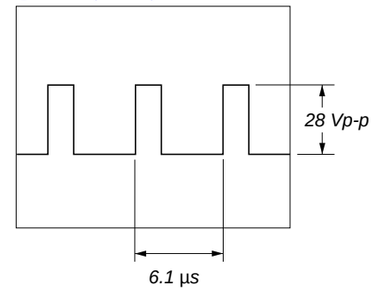
50 Q501 (Base)



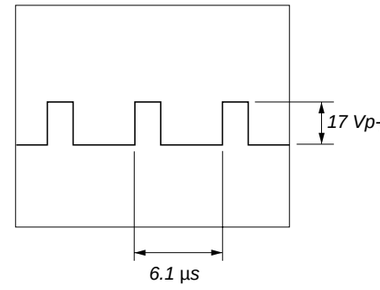
51 Q501 (Collector)



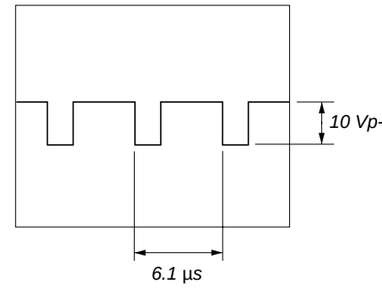
52 D502 (Anode)



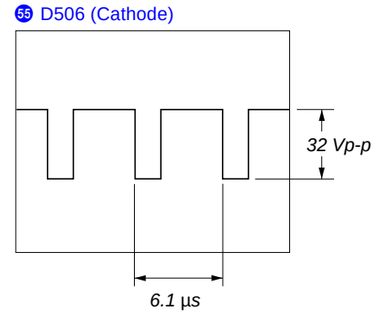
53 D503 (Anode)



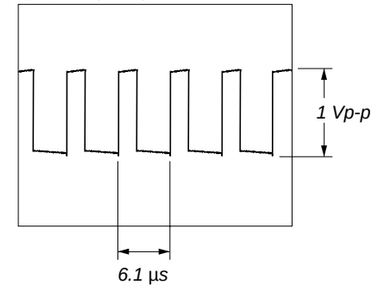
54 D505 (Cathode)



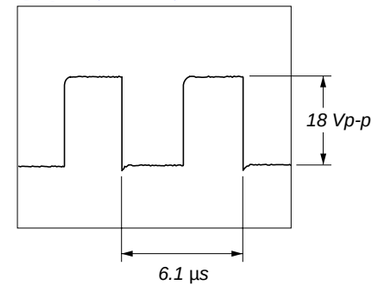
55 D506 (Cathode)



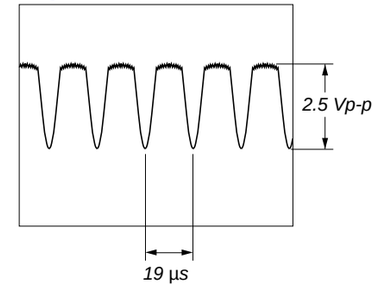
56 Q608 (Base)



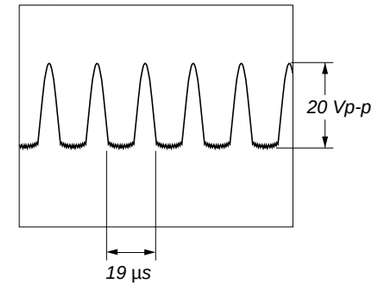
57 Q608 (Collector)



58 Q609, 610 (Base)

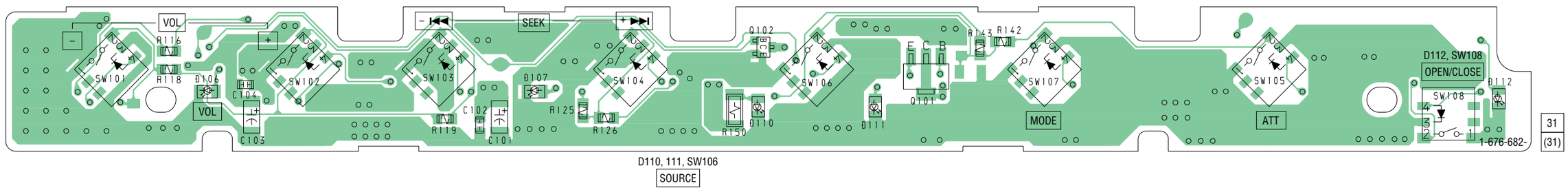


59 Q609, 610 (Collector)

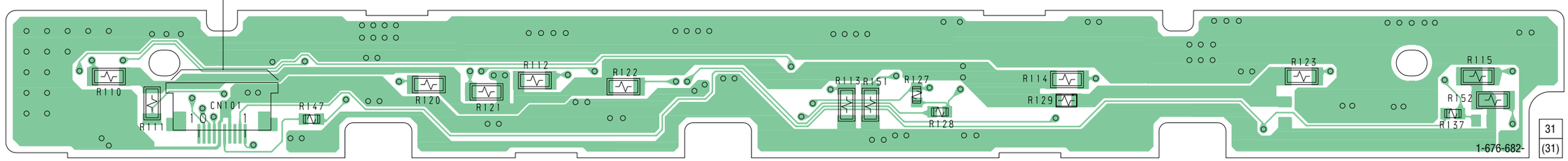


6-20. PRINTED WIRING BOARDS – ANGLE/KEY Boards – • See page 25 for Circuit Boards Location.

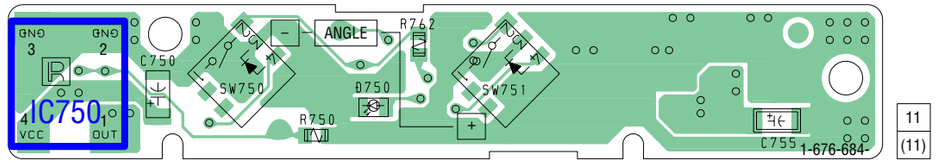
【KEY BOARD】(COMPONENT SIDE)



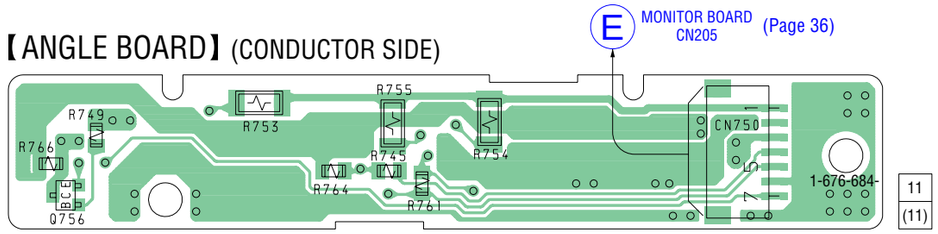
【KEY BOARD】
(CONDUCTOR SIDE)



【ANGLE BOARD】(COMPONENT SIDE)



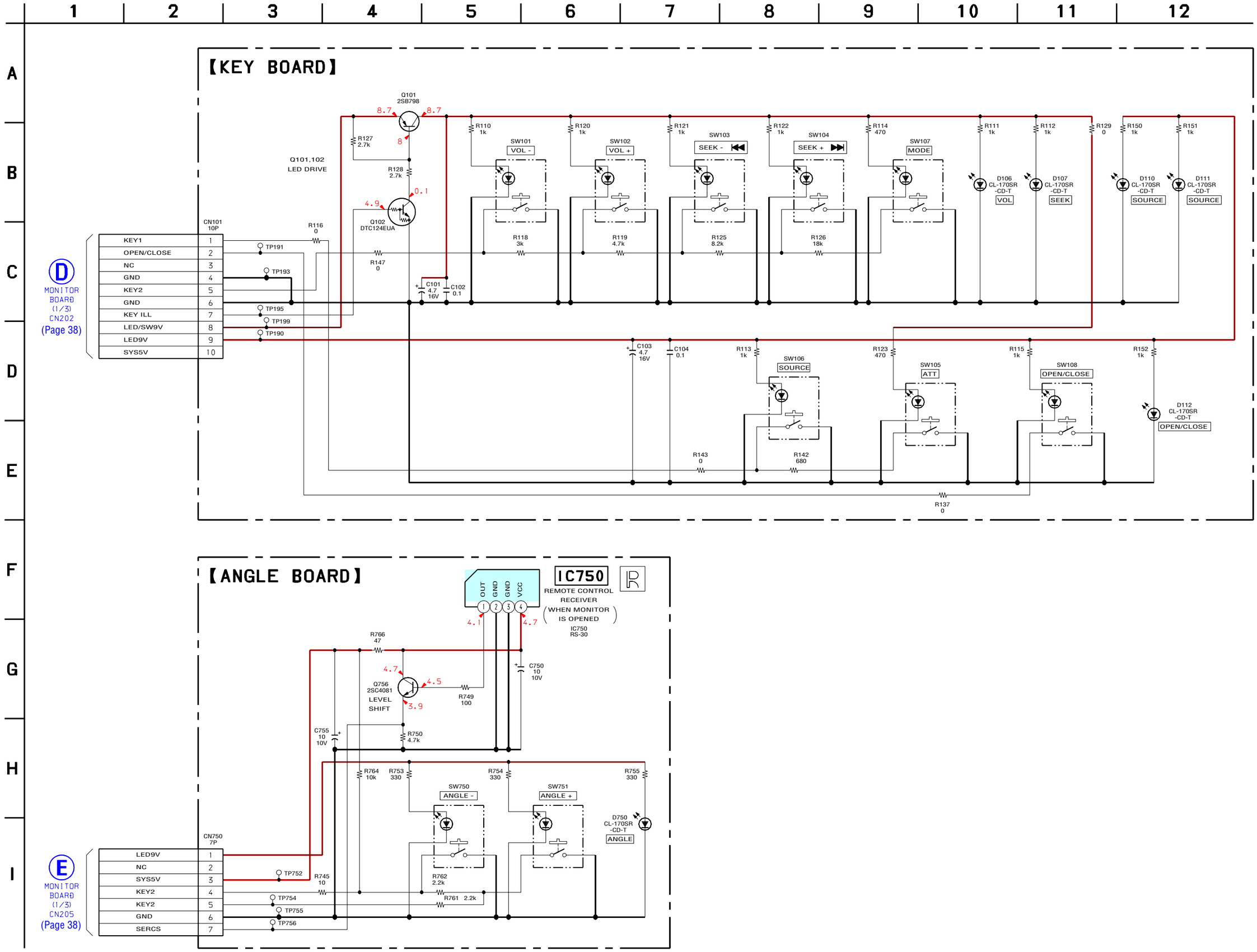
【ANGLE BOARD】(CONDUCTOR SIDE)



- **Semiconductor Location**

Ref. No.	Location
D106	B-3
D107	B-5
D110	B-7
D111	B-8
D112	B-13
D750	E-3
IC750	E-1
Q101	B-8
Q102	A-7
Q756	G-1

6-21. SCHEMATIC DIAGRAM – ANGLE/KEY Boards –



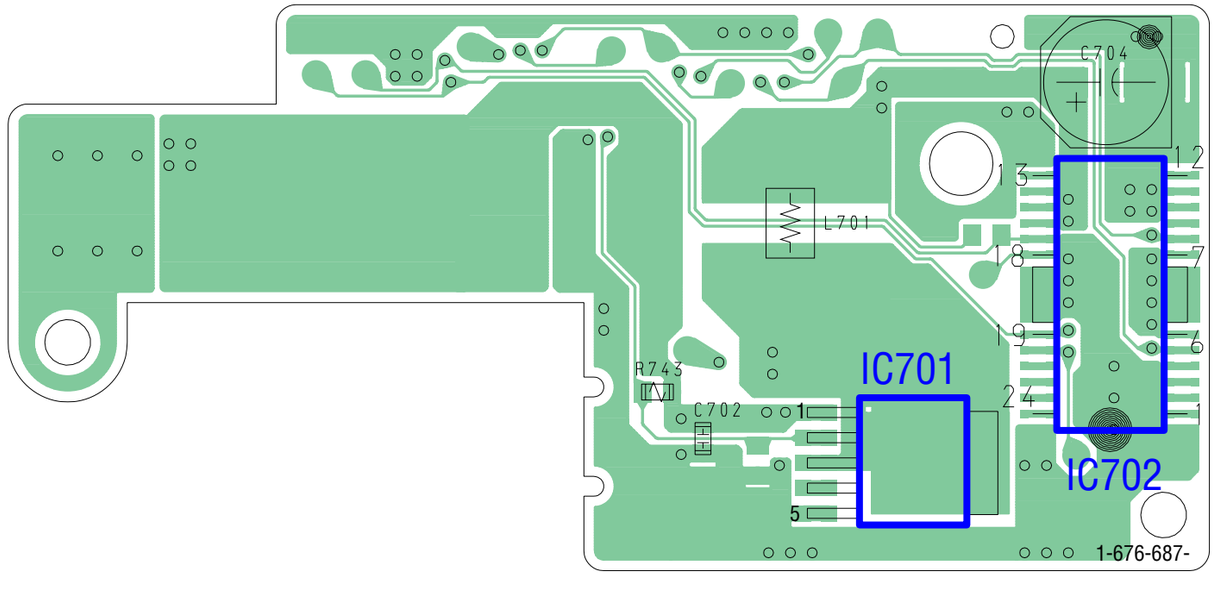
6-22. PRINTED WIRING BOARD – MOTOR Board –

• See page 25 for Circuit Boards Location.

• **Semiconductor Location**

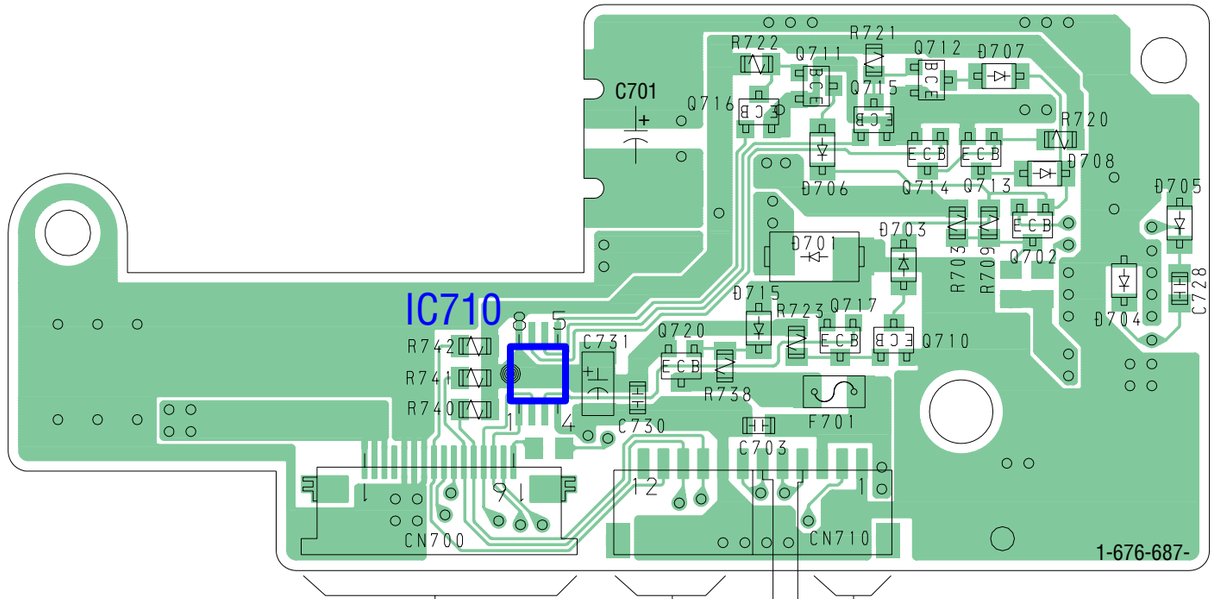
Ref. No.	Location
D701	E-4
D703	E-5
D704	E-5
D705	E-5
D706	E-4
D707	D-5
D708	E-5
D715	E-4
IC701	C-5
IC702	B-5
IC710	F-3
Q702	E-5
Q710	E-4
Q711	D-4
Q712	D-5
Q713	E-5
Q714	E-5
Q715	D-4
Q716	D-4
Q717	E-4
Q720	E-4

【MOTOR BOARD】(COMPONENT SIDE)



31
(31)

【MOTOR BOARD】(CONDUCTOR SIDE)



31
(31)

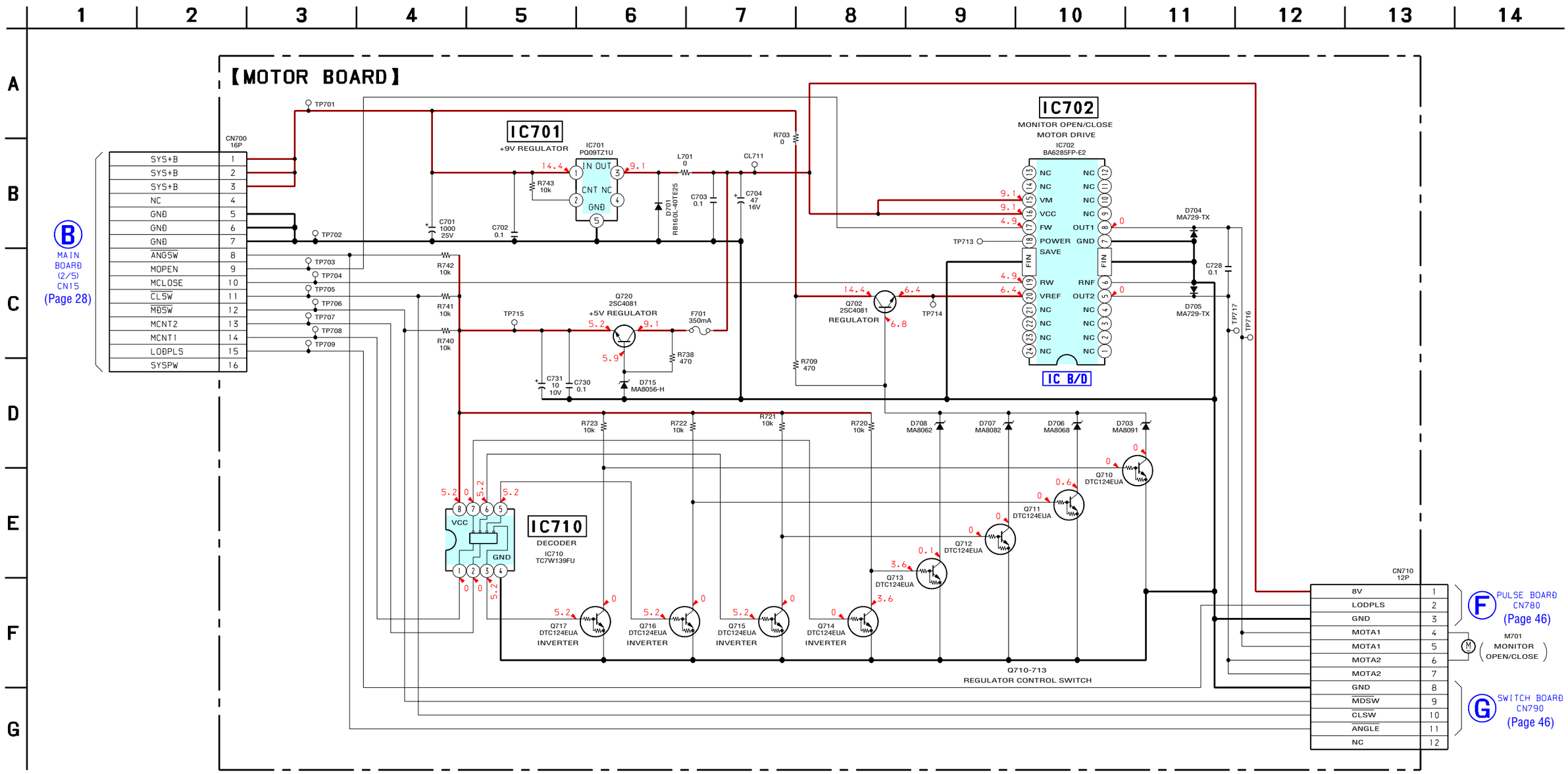
B MAIN BOARD CN15 (Page 32)

G SWITCH BOARD CN790 (Page 46)

M M701 MONITOR OPEN/CLOSE

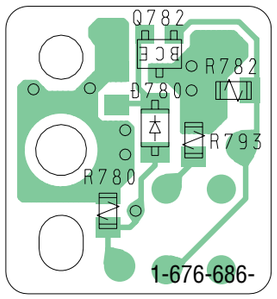
F PULSE BOARD CN780 (Page 46)

6-23. SCHEMATIC DIAGRAM – MOTOR Board – • See page 47 for IC Block Diagram.

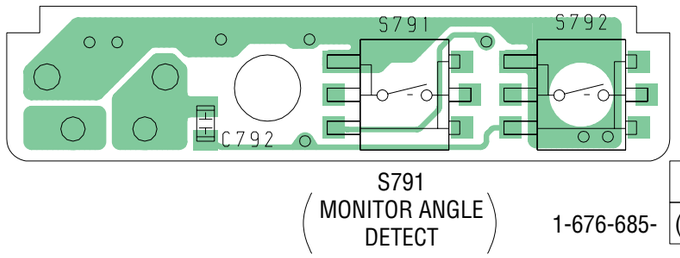


6-24. PRINTED WIRING BOARDS – PULSE/SWITCH Boards – • See page 25 for Circuit Boards Location.

【PULSE BOARD】
(COMPONENT SIDE)



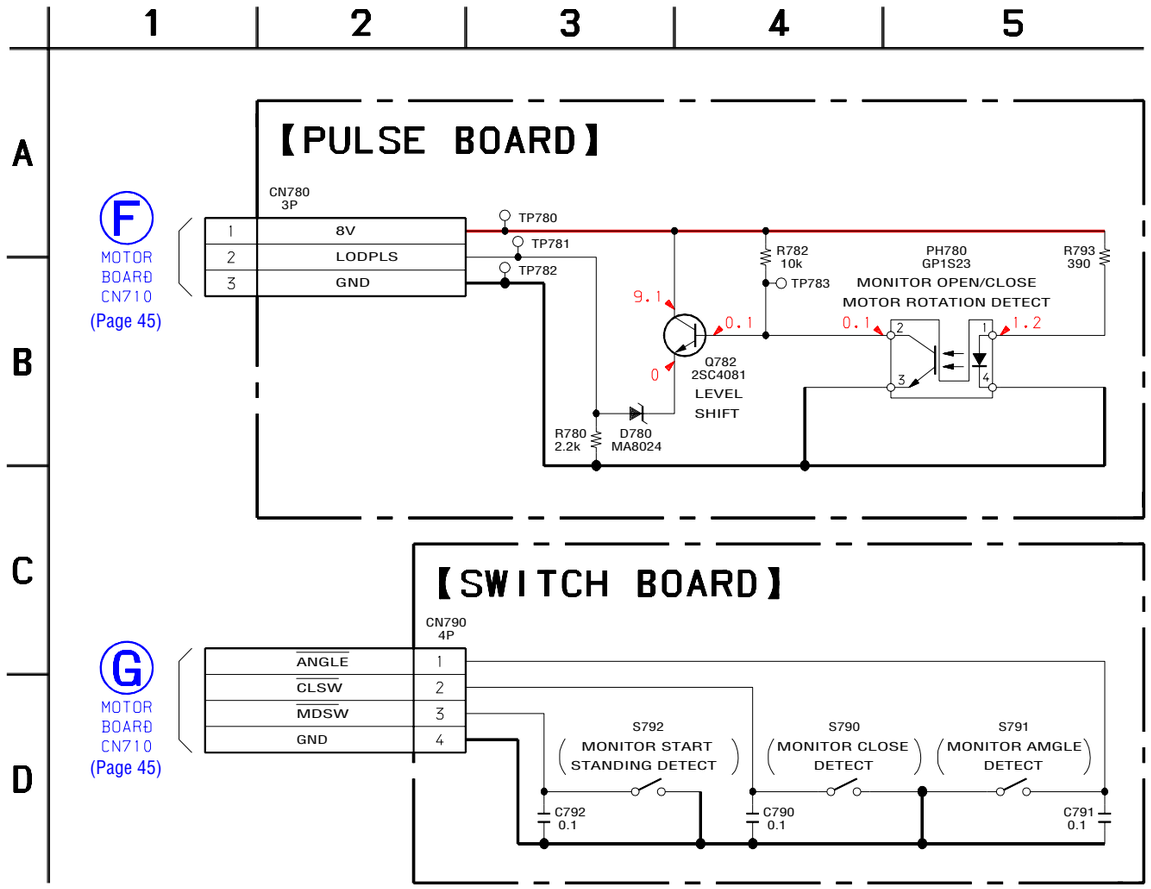
【SWITCH BOARD】
(COMPONENT SIDE)



【PULSE BOARD】
(CONDUCTOR SIDE)

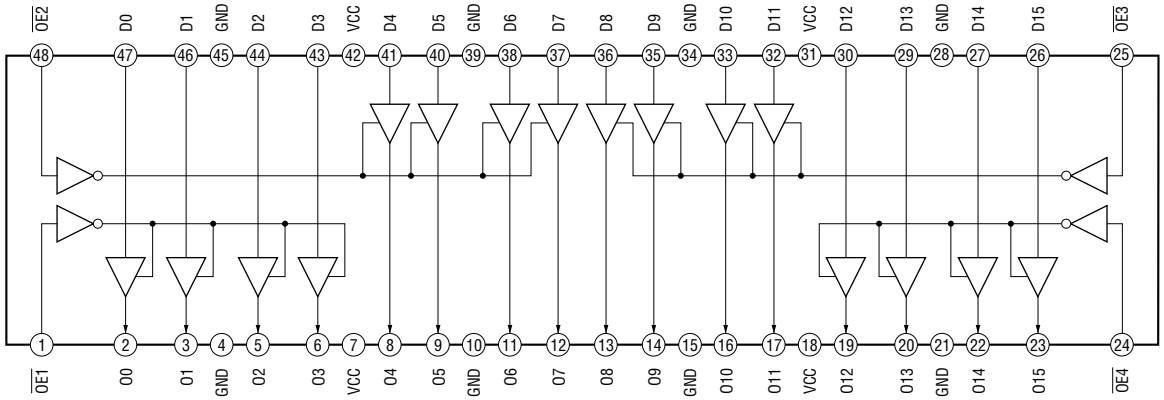
【SWITCH BOARD】
(CONDUCTOR SIDE)

6-25. SCHEMATIC DIAGRAM – PULSE/SWITCH Boards –

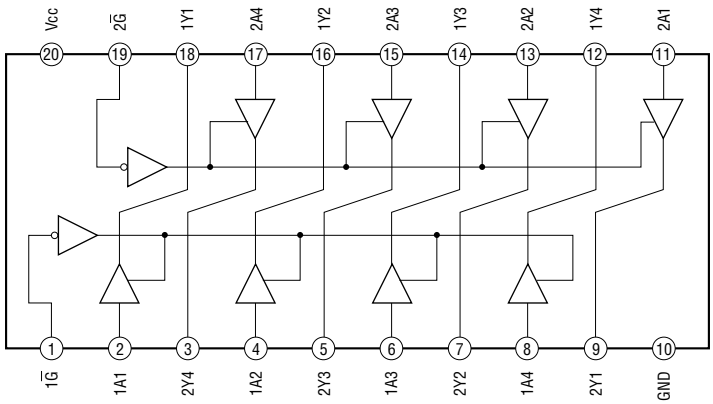


• **IC Block Diagrams**
– MAIN Board –

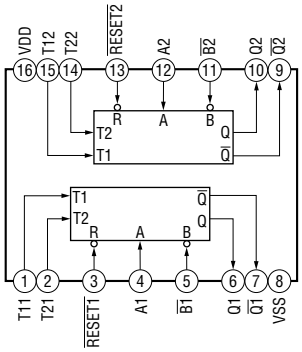
IC1 MC74LCX16244DTR2



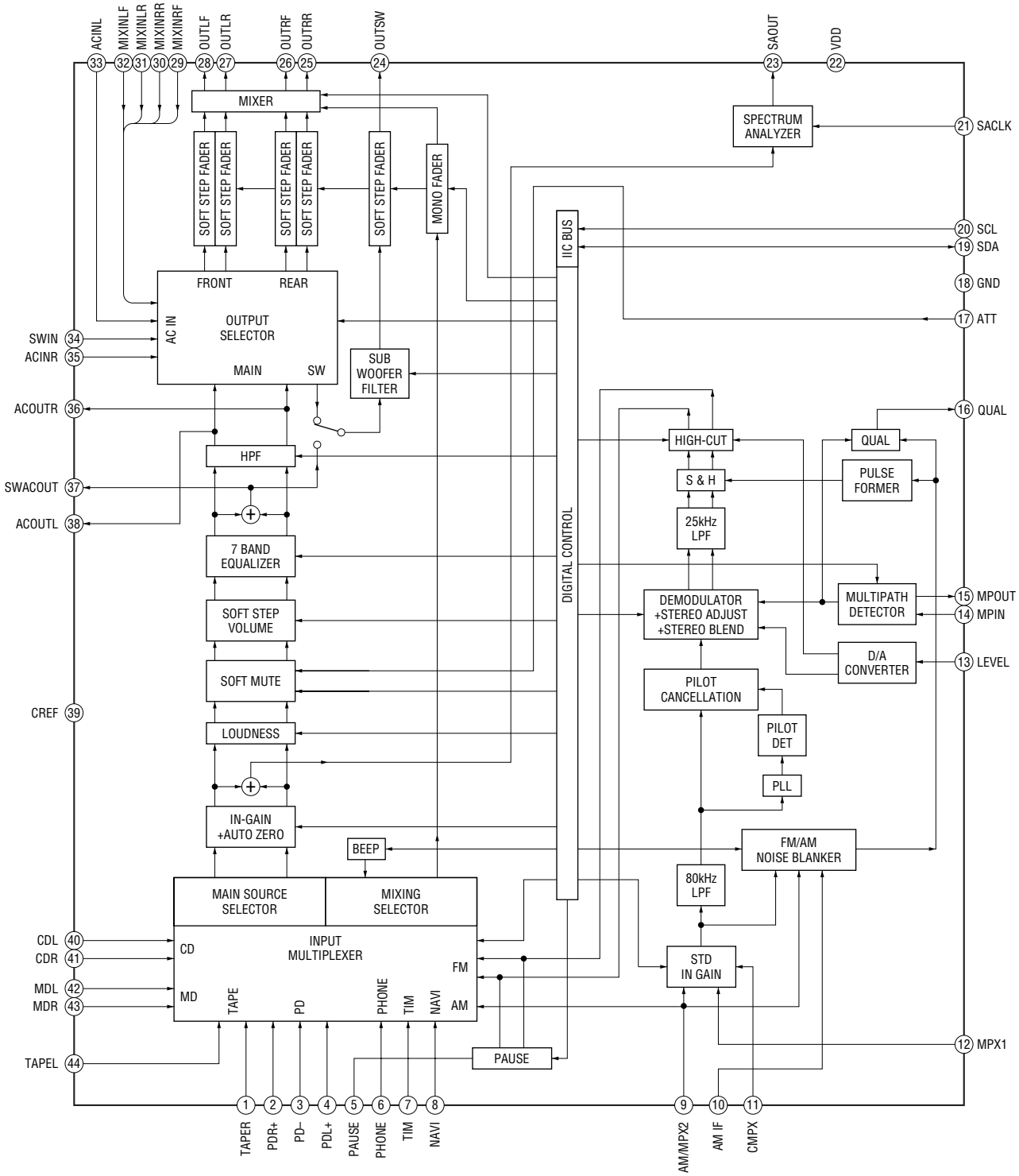
IC7 TC74VHCT244AFT (EL)



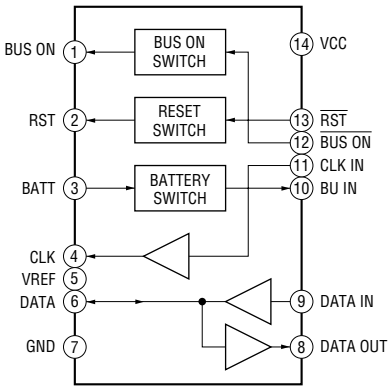
IC11 TC74HC4538AFT



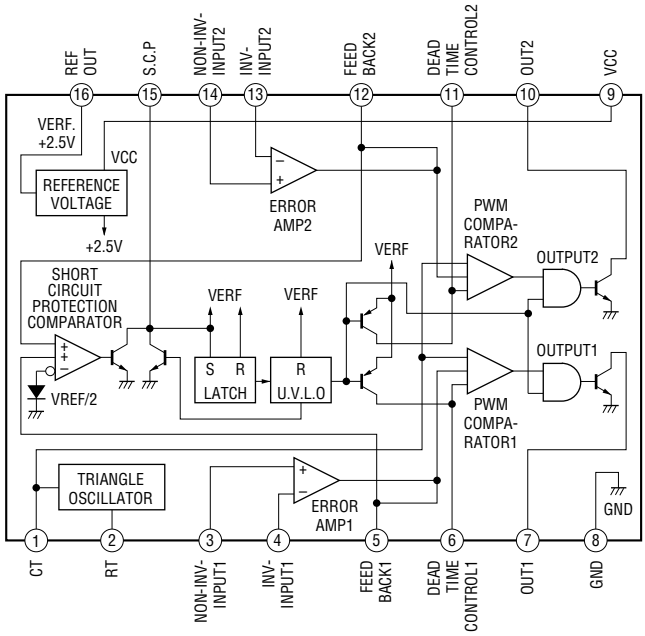
IC302 TDA7406



IC751 BA8270F-E2

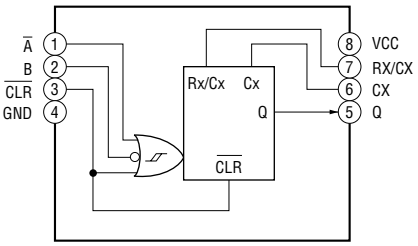


IC860 TL1415ACDB

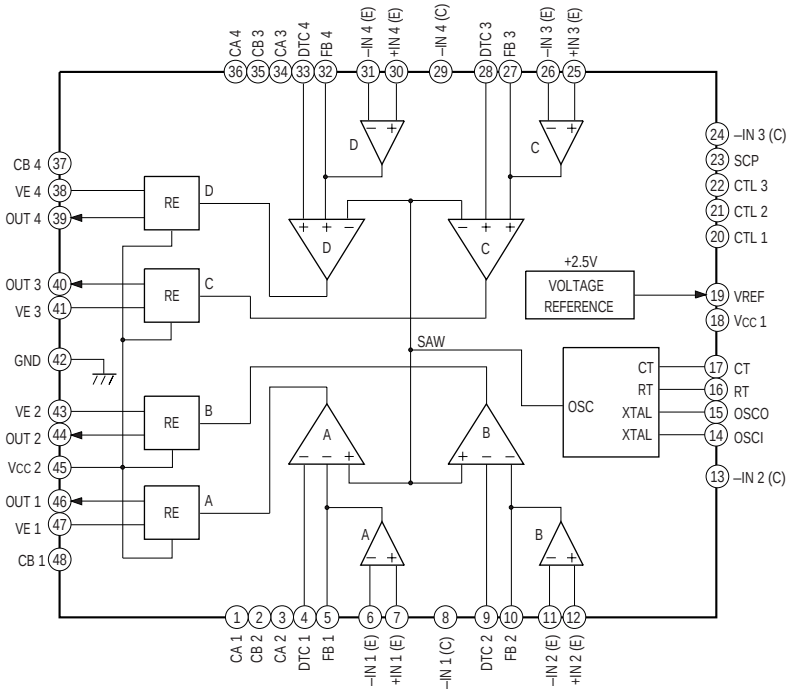


– MONITOR Board –

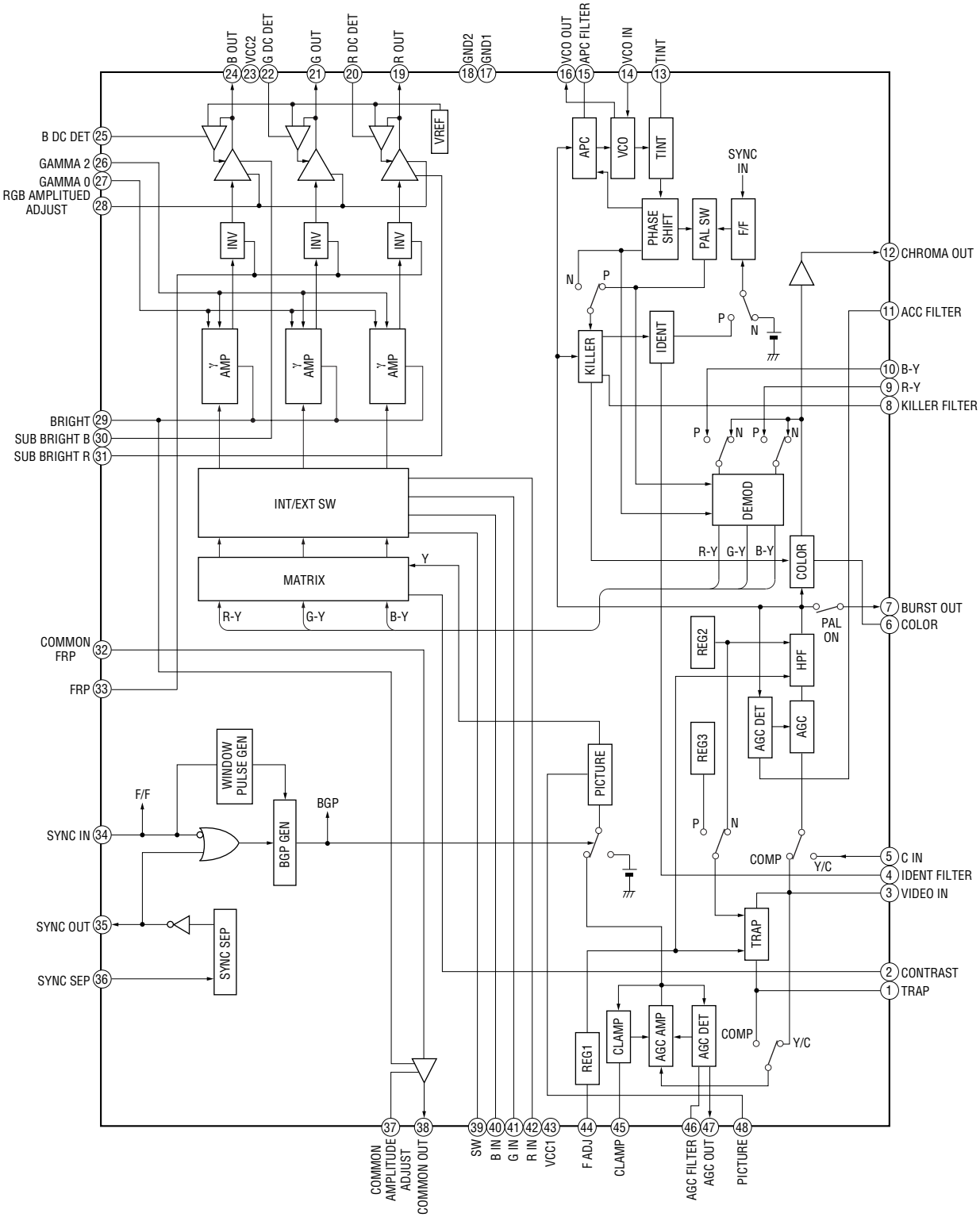
IC250 TC7WH123FU (TE12R)



IC900 MB3785APFV-G-BND-ER

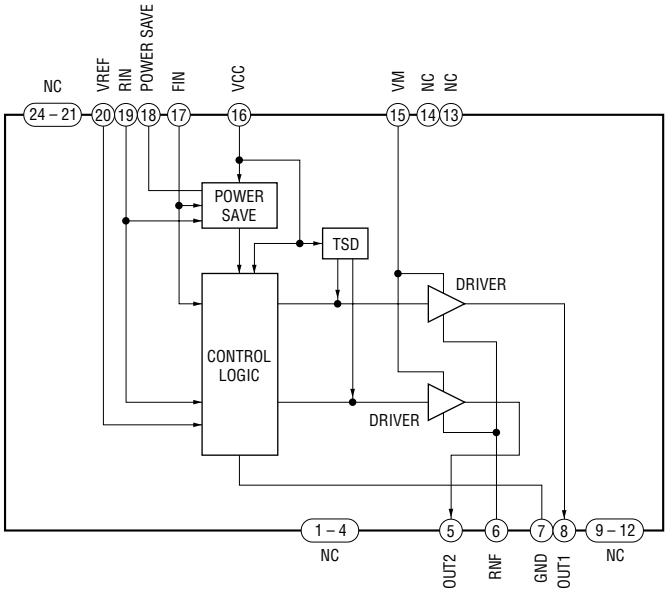


IC201 IR3Y29B4



– MOTOR Board –

IC702 BA6285FP-E2



6-26. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC2 MB90096PF-G-238-BND (ON SCREEN DISPLAY CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	CPOUT	O	Horizontal sync phase comparison result signal output terminal Not used
2	AVSS	—	Ground terminal (for internal VCO)
3	VCOIN	I	Internal VCO voltage input terminal Not used
4	AVSS	—	Ground terminal (for internal VCO)
5	$\overline{\text{RESET}}$	I	Reset signal input from the display controller "L": reset
6	$\overline{\text{TEST}}$	I	Input terminal for the test
7	VSS	—	Ground terminal
8	DOCKI	I	Dot clock signal input terminal Horizontal sync signal input in this set
9	DOCKO	O	Dot clock signal output terminal Not used
10	$\overline{\text{FH}}$	O	Output terminal of horizontal sync signal generated in PLL circuit Not used
11	EVEN	I	Field control signal input terminal Not used
12	$\overline{\text{HSYNC}}$	I	Horizontal sync signal input from the liquid crystal display driver (for monitor) Based in this signal period, dot clock signal is generated Active level is programmable
13	$\overline{\text{VSYNC}}$	I	Vertical sync signal input from the liquid crystal display driver (for monitor) Active level is programmable
14	DISP	I	Display outputs (ROUT, GOUT, BOUT, IOUT, VOB1, VOB2) control signal input from the display controller
15	VOB2	O	Semi-transparent period output terminal Active level is programmable Not used
16	VOB1	O	OSD display period output terminal Active level is programmable
17	IOUT	O	Color signal (I) output terminal Active level is programmable
18	GOUT	O	Color signal (G) output terminal Active level is programmable
19	ROUT	O	Color signal (R) output terminal Active level is programmable
20	BOUT	O	Color signal (B) output terminal Active level is programmable
21	V3V	—	Coupling capacitor connection terminal
22	VCC	—	Power supply terminal (+5V)
23	TRE	O	Output of signal indicating that the command is being transferred to display controller and the fill operation is under way "H" active
24	SCLK	I	Serial data transfer clock signal input from the display controller
25	SIN	I	Serial data input from the display controller
26	$\overline{\text{CS}}$	I	Chip select signal input from the display controller "L" active
27	AVCC	—	Power supply terminal (+5V) (for internal VCO)
28	AV3V	—	Coupling capacitor connection terminal

• **MAIN BOARD IC703 MB90574CPMT-G-387-BND1 (MASTER CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	COBOX ST	I	Connection box connection detection signal input from the display controller "L": connection box no connected, "H": connection box connected
2 to 4	NCO	O	Not used
5	ATT	O	Audio line and power amplifier muting on/off control signal output "H": muting on
6	$\overline{\text{SYSRST}}$	O	Reset signal output to the SONY bus interface and display controller "L": reset
7	NCO	O	Not used
8	VCC	—	Power supply terminal (+5V)
9	NCO	O	Not used
10	TROM-SDA	I/O	Two-way data EEPROM bus with the tuner unit
11	TROM-SCL	I/O	EEPROM bus clock signal input/output with the tuner unit
12	RX	I	Input terminal for UART transfer data when writing into internal flash memory data
13	TX	O	Output terminal for UART transfer data when writing into internal flash memory data
14	$\overline{\text{BUS-ON}}$	O	Bus on/off control signal output to the SONY bus interface and display controller "L": bus on
15	BEEP	O	Beep sound drive signal output
16	NAVI-ATT	I	Muting on/off control signal input at voice guide "H": muting on Not used
17	UNISI	I	Serial data input from the SONY bus interface
18	UNISO	O	Serial data output to the SONY bus interface
19	UNICLK	O	Serial clock signal output to the SONY bus interface and display controller
20	$\overline{\text{MVOL RST}}$	O	Reset signal output to the monitor internal electrical volume "L": reset Not used
21	MVOL DAT	O	Serial data output to the monitor internal electrical volume Not used
22	MVOL CLK	O	Serial data transfer clock signal output to the monitor internal electrical volume Not used
23	NCO	O	Not used
24	SIRCS	I	Sircs remote control signal input
25 to 30	NCO	O	Not used
31	$\overline{\text{E-VOL-ATT}}$	O	Muting on/off control signal output to the electrical volume "L": muting on Not used
32	NCO	O	Not used
33	VSS	—	Ground terminal
34	C	—	Connected to coupling capacitor for the power supply
35	ADSO1	O	ADSO control signal output "L": ADSO off/ADSO 1, "H": ADSO 2/ADSO 3
36	ADSO2	O	ADSO control signal output "L": ADSO off/ADSO 2, "H": ADSO 1/ADSO 3
37	SHIFT	O	Oscillation frequency shift signal output to the power control
38	DVCC	—	Power supply terminal (+5V) (for D/A converter)
39	DVSS	—	Ground terminal (for D/A converter)
40, 41	NCO	O	Not used
42	AVCC	—	Power supply terminal (+5V) (for A/D converter)
43	AVRH	I	Reference voltage (+5V) input terminal (for A/D converter)
44	AVRL	I	Reference voltage (0V) input terminal (for A/D converter)
45	AVSS	—	Ground terminal (for A/D converter)
46, 47	KEYIN0, KEYIN1	I	Key input terminal (A/D input)
48	RC-IN0	I	Rotary remote commander key input terminal (A/D input)
49	KEYIN2	I	Key input terminal (A/D input)
50	QUALITY	I	Noise level detection signal input at SEEK mode (A/D input) Not used
51	NCO	O	Not used
52	MPTH	O	Multi-path detection signal input terminal (A/D input) Not used
53	S-METER	I	FM and AM signal meter voltage detection signal input from the tuner unit (A/D input)

Pin No.	Pin Name	I/O	Description
54	VCC	—	Power supply terminal (+5V)
55	$\overline{\text{ST-BY}}$	O	Standby on/off control signal output to the power amplifier "L": standby mode, "H": amplifier on
56	NS-MASK	O	Discharge control signal output terminal for the noise detection circuit "H": discharge Not used
57	DDC-ON	O	System power supply on/off control signal output "H": power on
58	$\overline{\text{SIDEBRK}}$	I	Sidebreake state detection signal input "L": at stopping, "H": at running
59	RGB SEL	O	RGB signal selection signal output to the display controller "L": video, "H": RGB (navi)
60	KEY ILL	O	Key illumination LED drive signal output "H": LED on
61	$\overline{\text{OPNCLS}}$	I	OPEN/CLOSE key input terminal When "L" is input, open the monitor
62	$\overline{\text{AMUTE}}$	O	Audio line muting on/off control signal output to the monitor internal power amplifier "L": muting on Not used
63	VSS	—	Ground terminal
64	NCO	O	Not used
65	PWM	I	For frequency counting signal input from the power control
66 to 68	NCO	O	Not used
69	FLASH-W	I	Internal flash memory data write mode detection signal input terminal "L": data write mode
70	I2C-SDA	I/O	Two-way data I2C bus with the tuner unit and electrical volume
71	I2C-SCL	I/O	I2C bus clock signal input/output to with tuner unit and electrical volume
72	RC-IN1	I	Rotary remote commander shift key input terminal "L": shift key on
73	X1A	O	Sub system clock output terminal (32.768 kHz)
74	X0A	I	Sub system clock input terminal (32.768 kHz)
75	$\overline{\text{DAVN}}$	I	Synchronized detection signal of RDS data block input from the RDS decoder "L": active Not used
76	NCO	O	Not used
77	BU IN	I	Battery detection signal input from the SONY bus interface "L" is input at low voltage
78	NCO	O	Not used
79	KEY ACK	I	Input of acknowledge signal for the key entry Acknowledge signal is input to accept function keys in the power off status On at input of "H"
80	$\overline{\text{AD-ON}}$	O	A/D converter power control signal output When the KEY ACK (pin ⑦⑨) that controls reference voltage power for key A/D conversion input is active, "L" is output from this terminal to enable the input
81	$\overline{\text{ACCIN}}$	I	Accessory detect signal input "L": accessory on
82	$\overline{\text{BACK SEN}}$	I	Back gear interrupt signal input terminal "L" active Not used
83	P-ON	O	Audio power supply on/off control signal output "H": power on
84	TEST-IN	I	Setting terminal for the test mode "H": test mode, Normally: fixed at "L"
85	$\overline{\text{RAM-BU}}$	I	Internal RAM reset detection signal input from the reset signal generator Input terminal to check that RAM data are not destroyed due to low voltage This checking is made within 100 msec after reset
86	$\overline{\text{HSTX}}$	I	Hardware standby input terminal "L": hardware standby mode Reset signal input in this set
87	MD2	I	Setting terminal for the CPU operational mode (fixed at "L" in this set)
88, 89	MD1, MD0	I	Setting terminal for the CPU operational mode (fixed at "H" in this set)
90	$\overline{\text{RSTX}}$	I	System reset signal input from the reset signal generator and reset switch "L": reset "L" is input for several 100 msec after power on, then it changes to "H"
91	VSS	—	Ground terminal
92	X0	I	Main system clock input terminal (3.58 MHz)
93	X1	O	Main system clock output terminal (3.58 MHz)
94	VCC	—	Power supply terminal (+5V)

Pin No.	Pin Name	I/O	Description
95	$\overline{\text{ILL-IN}}$	I	Auto dimmer control illumination line detection signal input “L” is input at dimmer detection
96	LODPLS	I	Motor rotation pulse signal input from the monitor open/close motor rotation detection sensor
97	MOPEN	O	Monitor open/close motor drive signal (open direction) output
98	MCLOSE	O	Monitor open/close motor drive signal (close direction) output
99	$\overline{\text{ANGSW}}$	I	Monitor angle detection switch input terminal
100	$\overline{\text{MDSW}}$	I	Monitor start standing detection switch input terminal
101	$\overline{\text{CLSW}}$	I	Monitor close detection switch input terminal
102, 103	MCNT1, MCNT2	O	Monitor open/close motor drive power supply on/off control signal output “H”: power on
104, 105	DESTSEL1, DESTSEL2	I	Destination setting terminal
106	$\overline{\text{BOOT}}$	O	Serial data output to the display controller “L” is output when writing change
107	SA ENIN	I	Enable signal input for spectrum analyzer display to the display controller “H”: active
108 to 110	NCO	O	Not used
111	REMSEL	O	Monitor key illumination color selection signal output terminal Not used
112	ILL ON	O	Key illumination power supply on/off control signal output “H”: power on
113	MNTOPN	O	Remote control receiver selection signal output “L”: monitor is opened, “H”: monitor is closed
114	TUNER-ON	O	Tuner system power supply on/off control signal output “H”: tuner power on
115	LED SW1	O	Monitor selection signal output to the display controller “L”: sub display, “H”: main display
116	LED SW2	O	Monitor selection signal output to the display controller “L”: main display, “H”: sub display
117	TEL ATT	I	Telephone detection signal input terminal At input of “H”, the signal is attenuated by –20 dB
118	DVD IN	I	DVD playback signal input terminal Not used
119	VSS	—	Ground terminal
120	BACK CNT	O	Rear camera control signal output terminal Not used

• **MAIN BOARD IC900 HD6432398A07FWV (DISPLAY CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	COBOX	O	Connection box connection detection signal output to the master controller “L”: connection box no connected, “H”: connection box connected
2	NCO	O	Not used
3	VSS	—	Ground terminal
4	NC	—	Not used
5	VCC	—	Power supply terminal (+5V)
6 to 9	NCO	O	Not used
10	VSS	—	Ground terminal
11 to 18	NCO	O	Not used
19	VSS	—	Ground terminal
20 to 27	NCO	O	Not used
28	VSS	—	Ground terminal
29 to33	NCO	O	Not used
34	BU IN	I	Battery detection signal input from the SONY bus interface “L” is input at low voltage
35, 36	VSS	—	Ground terminal
37	NCO	O	Not used
38	$\overline{\text{BUSON}}$	I	Bus on/off control signal input from the master controller “L”: bus on
39	VCC	—	Power supply terminal (+5V)
40	RGBVSEL	I	RGB signal selection signal input from the master controller “L”: video, “H”: RGB (navi)
41	NCO	O	Not used
42	WIDE1	O	Liquid crystal display wide mode selection signal output to the liquid crystal display driver (for monitor) “L”: zoom/widezoom, “H”: normal/full
43	WIDE2	O	Liquid crystal display wide mode selection signal output to the liquid crystal display driver (for monitor) “L”: zoom/normal, “H”: widezoom/full
44	VSS	—	Ground terminal
45	NCO	O	Not used
46	LED SW1	I	Monitor selection signal input from the master controller “L”: sub display, “H”: main display
47	LED SW2	I	Monitor selection signal input from the master controller “L”: main display, “H”: sub display
48	OSDC TRE	I	Monitor input during transfer operation from the on screen display controller “H” active
49	NCO	O	Not used
50	LINKOFF	O	Link on/off control signal output for the SONY bus “H”: link off
51	DIMMER	O	Monitor dimmer on/off control signal output “H”: dimmer on
52	LCDPW	O	Monitor power supply on/off control signal output “H”: monitor power on
53	VSS	—	Ground terminal
54	$\overline{\text{OSDCRESET}}$	O	Reset signal output to the on screen display controller “L”: reset
55, 56	NCO	O	Not used
57	$\overline{\text{BOOT}}$	I	Serial data input from the master controller “L” is input when writing change
58	VCC	—	Power supply terminal (+5V)
59	LCD DI	O	Serial data output to the liquid crystal display driver
60	OSCDSO/TX	O	Serial data output to the on screen display controller Output terminal for UART transfer data when writing into internal flash memory data
61	NCO	O	Not used
62	RX	I	Input terminal for UART transfer data when writing into internal flash memory data
63	LCDCKO	O	Serial data transfer clock signal output to the liquid crystal display driver
64	OSDCCKO	O	Serial data transfer clock signal output to the on screen display controller

Pin No.	Pin Name	I/O	Description
65	VSS	—	Ground terminal
66	$\overline{\text{OSDCCE}}$	O	Chip enable signal output to the on screen display controller "L" active
67, 68	VSS	—	Ground terminal
69	LCD INH	O	Blank indicate control signal output to the liquid crystal display driver "H": display on
70	LCD CE	O	Chip enable signal output to the liquid crystal display driver "H" active
71, 72	NCO	O	Not used
73	RGB COL	O	RGB color control signal output to the connection box
74	NCO	O	Not used
75	RGB HUE	O	RGB hue control signal output to the connection box
74	NCO	O	Not used
77	NP SEL	O	NTSC/PAL selection signal output to the connection box and liquid crystal display driver (for monitor) "L": PAL, "H": NTSC
78	NCO	O	Not used
79	FL W	O	Flash memory data write control signal output
80	FWE	I	Flash memory data write enable signal input
81	$\overline{\text{SYSRST}}$	I	System reset signal input from the master controller, reset signal generator and reset switch "L": reset "L" is input for several 100 msec after power on, then it changes to "H"
82	NMI	I	Non maskable interrupt signal input terminal Not used
83	$\overline{\text{STBY}}$	I	Hard ware standby signal input terminal "L": Hard ware standby mode Not used
84	VCC	—	Power supply terminal (+5V)
85	XTAL	O	System clock output terminal (18.432 MHz)
86	EXTAL	I	System clock input terminal (18.432 MHz)
87	VSS	—	Ground terminal
88	NCO	O	Not used
89	VCC	—	Power supply terminal (+5V)
90 to 94	NCO	O	Not used
95	SA CLK	O	Spectrum analyzer display serial data transfer clock signal output to the electrical volume
96	SA ENIN	I	Enable signal input for spectrum analyzer display from the master controller "H": active
97	UNISO	O	Serial data output to the SONY bus interface
98	UNISI	I	Serial data input from the SONY bus interface
99, 100	VSS	—	Ground terminal
101	UNISCK	I	Serial clock signal input from the master controller
102	NCO	O	Not used
103	AVCC	—	Power supply terminal (+5V) (for A/D, D/A converter)
104	VREF	I	Reference voltage (+5V) input terminal (for A/D, D/A converter)
105	SA DATA	I	Spectrum analyzer display serial data input from the electrical volume
106 to 110	NCO	O	Not used
111	BRIGHT	O	Monitor bright control signal output to the video interface (D/A output)
112	NCO	O	Not used
113	AVSS	—	Ground terminal (for A/D, D/A converter)
114	VSS	—	Ground terminal
115	NCO	O	Not used
116	VSYNC SSEP	I	Vertical sync signal input from the connection box
117	HSYNC SSEP	I	Horizontal sync signal input from the connection box
118	NCO	O	Not used
119	VSYNC MON	I	Vertical sync signal input from the liquid crystal display driver (for monitor)
120	HSYNC MON	I	Horizontal sync signal input from the liquid crystal display driver (for monitor)

Pin No.	Pin Name	I/O	Description
121	NCO	O	Not used
122	OSDC DISP	O	Display outputs control signal output to the on screen display controller
123 to 125	MD0 to MD2	I	Setting terminal for the CPU operational mode (fixed at “H” in this set)
126, 127	NCO	O	Not used
128	AV SEL	O	Audio/visual output selection signal output “L”: audio (RGB (OSD)), “H”: visual (external input (TV, video, navi))

• **MONITOR BOARD IC401 LZ9GJ24 (LIQUID CRYSTAL DISPLAY DRIVER (FOR MONITOR))**

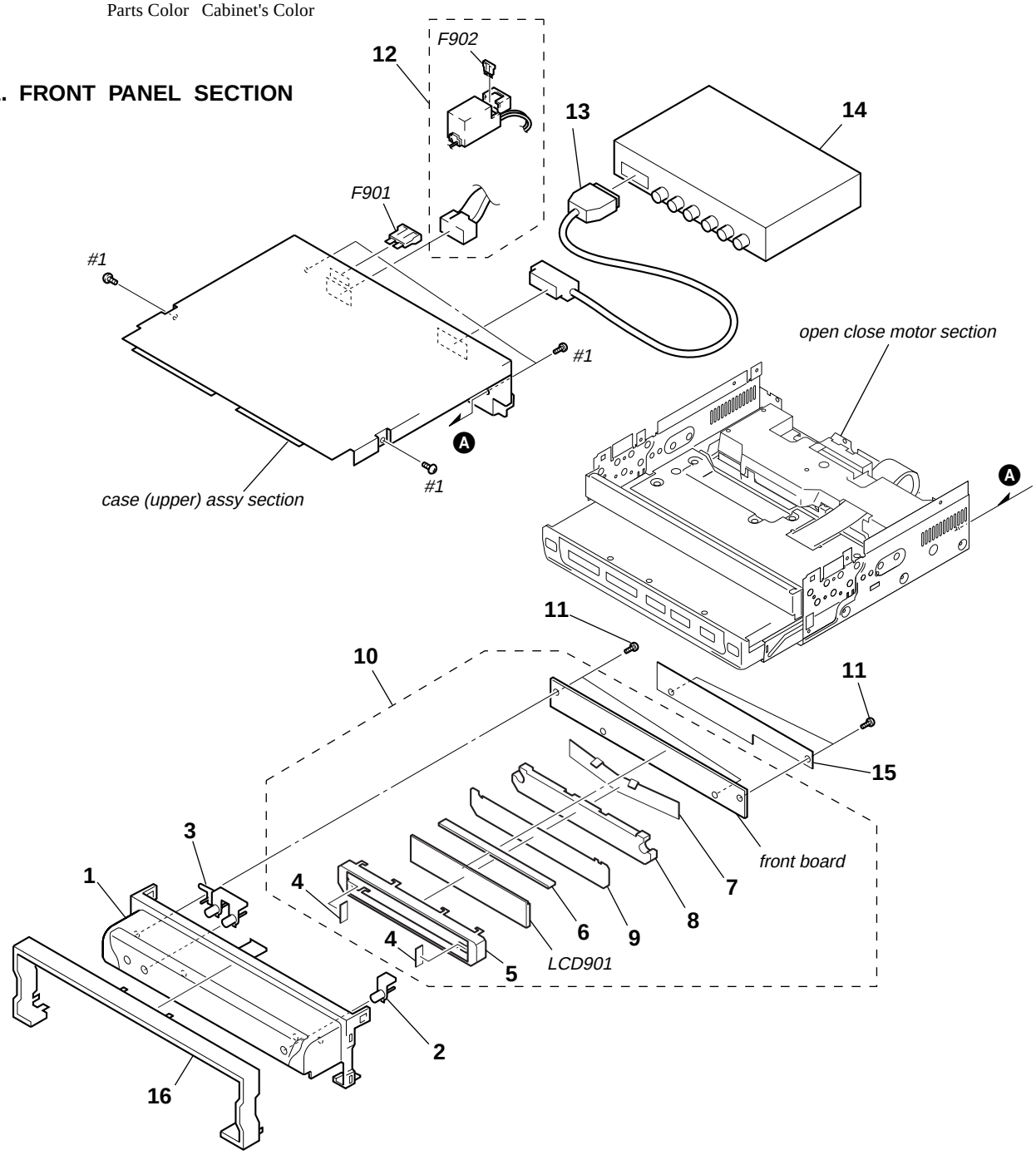
Pin No.	Pin Name	I/O	Description
1	VIN	I	Vertical sync signal input (positive polarity)
2	CVOP	O	Vertical sync isolation signal output
3	MON E	O	Test setting output terminal Not used
4	HSY	O	Horizontal sync signal output to the on screen display controller, video interface and display controller (negative polarity)
5	VDD	—	Power supply terminal (+5V)
6	FRPT	O	Polarity inversion signal output for opposite electrode to the video interface
7	SYNI	I	Composite sync signal input from the video interface
8	FRPV	O	Polarity inversion signal output for video signal to the video interface
9	GND	—	Ground terminal
10	VCS	O	Mask signal output for normal mode to the video interface
11	NTPC	I	NTSC/PAL selection signal input from the display controller "L": PAL, "H": NTSC
12	VSY	O	Vertical sync signal output to the on screen display controller and display controller
13	HRVC	I	Horizontal scanning direction setting input terminal Fixed at "H" in this set
14	VRVC	I	Vertical scanning direction setting input terminal Fixed at "L" in this set
15	CLKC	I	Clock/synchronizing signal input/output setting input terminal "L": HSY (pin ④), VSY (pin ⑫), EXCL (pin ⑱) are input mode "H": HSY (pin ④), VSY (pin ⑫), EXCL (pin ⑱) are output mode Fixed at "H" in this set
16	MDS	I	Display mode setting input terminal Fixed at "H" in this set
17	GND	—	Ground terminal
18	EXCL	O	External clock signal output terminal Not used
19	GND	—	Ground terminal
20	MDW	I	Liquid crystal display wide mode selection signal input from the display controller "L": zoom/widezoom, "H": normal/hull
21	MDN	I	Liquid crystal display wide mode selection signal input from the display controller "L": zoom/normal, "H": widezoom/hull
22	PWM	O	Back light control signal output terminal Not used
23	MON F	O	Test setting output terminal Not used
24	VSWC	O	VSWO (pin ㉖) output control signal input terminal "L": superposed VCS signal on inversion of VSWI (pin ㉕) output "H": inversion of VSWI (pin ㉕) output Fixed at "H" in this set
25	VSWI	I	Video system selection signal input terminal Not used
26	VSWO	O	Video system selection signal output terminal Not used
27	VDD	—	Power supply terminal (+5V)
28	SPOI	I/O	Source driver start signal input/output with the liquid crystal display
29	GND	—	Ground terminal
30	PCP	O	Test setting output terminal Not used
31	CLOC	O	EXCL (pin ⑱) output mode selection signal input terminal "L": CLD signal output at EXCL (pin ⑱) output mode (CLCK pin ⑮: "H") "H": "L" output at EXCL (pin ⑱) output mode (CLCK pin ⑮: "H") Fixed at "H" in this set
32	MOD2	O	Gate driver control signal output to the liquid crystal display
33	HR	O	Source driver horizontal scanning setting output to the liquid crystal display
34	IHR	O	Source driver horizontal scanning setting output terminal Not used
35	PS	O	Source driver control signal output to the liquid crystal display
36	CTR	O	Source driver control signal output to the liquid crystal display
37	SPIO	I/O	Source driver start signal input/output with the liquid crystal display

Pin No.	Pin Name	I/O	Description
38	PDP	O	Phase comparation output terminal
39	GND	—	Ground terminal
40	MON	O	Test setting output terminal Not used
41, 42	GND	—	Ground terminal
43	OSCO	O	Clock oscillator circuit output terminal
44	OSCI	O	Clock oscillator circuit input terminal
45	VDD	—	Power supply terminal (+5V)
46	GND	—	Ground terminal
47	CLD	O	Source driver clock signal output to the liquid crystal display
48	TST1	I	Test setting input terminal Fixed at “H” in this set
49	RESH	I	Horizontal counter reset signal input terminal Not used
50	RESV	I	Vertical counter reset signal input terminal Not used
51	TST2	I	Test setting input terminal Fixed at “H” in this set
52	TEST	I	Test setting input terminal Fixed at “H” in this set
53 to 56	MON A to MON D	O	Test setting output terminal Not used
57	CLS	O	Gate driver clock signal output to the liquid crystal display
58	SPS	O	Gate driver reset signal output to the liquid crystal display
59	VR	I	Gate driver scanning input from the liquid crystal display
60	MOD1	O	Gate driver control signal output to the liquid crystal display
61	TEST	I	Test setting input terminal Fixed at “L” in this set
62, 63	GND	—	Ground terminal
64	GPS	O	Gate power supply signal output terminal Not used
65	LOWI	I	Gate driver control signal input terminal Not used
66	ABC	I	Output setting input terminal “L”: VSWO (pin ㉖), GPS (pin ㊹), SYNO (pin ㉜) are “L” output mode “H”: VSWO (pin ㉖), GPS (pin ㊹), SYNO (pin ㉜) are normal output mode Fixed at “L” in this set
67	VDD	—	Power supply terminal (+5V)
68	GND	—	Ground terminal
69	DVTC	I	Test setting input terminal Fixed at “H” in this set
70	BLKI	I	Double-sided position adjustment signal input terminal
71	BLKO	O	Double-sided position adjustment signal output terminal
72	SYNO	O	Composite sync signal output terminal Not used

SECTION 7
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Accessories are given in the last of the electrical parts list.

7-1. FRONT PANEL SECTION

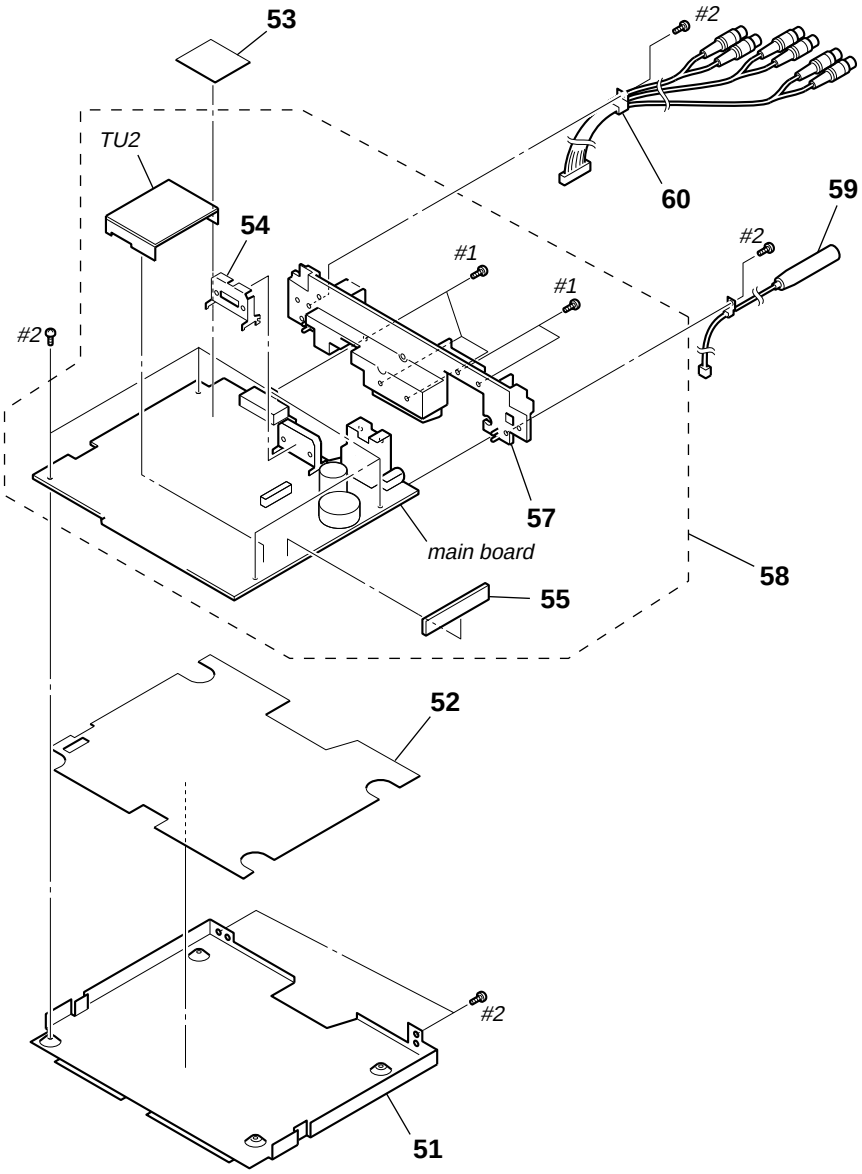


Ref. No.	Part No.	Description	Remark
1	X-3381-954-1	PANEL ASSY, FRONT (US)	
1	X-3382-163-1	PANEL ASSY, FRONT (E)	
2	3-241-406-01	BUTTON (OFF)	
3	3-241-407-01	BUTTON (DICS) (–, +)	
4	3-241-417-01	SHEET (LCD)	
* 5	3-224-896-02	PLATE (LCD), GROUND	
6	1-694-781-11	CONDUCTIVE BOARD, CONNECTION	
7	3-241-409-01	REFLECTOR (LCD)	
* 8	3-224-870-01	PLATE (LCD), LIGHT GUIDE	
9	3-241-408-01	ILLUMINATOR (LCD)	
10	A-3274-353-A	FRONT BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
11	3-945-884-11	SCREW (2X6)	
12	1-824-243-11	CORD, POWER	
13	1-824-240-11	CORD, CONNECTION (22P) (for XA-114 CONNECT)	
14	1-477-422-11	HIDEAWAY UNIT (XA-114)	
15	3-244-120-01	SHEET, LIGHT INTERCEPTION	
16	3-036-095-21	SPACER (14)	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A/32A)	
F902	1-532-796-11	FUSE (BLADE TYPE) (AUTO FUSE) (5A/32A)	
LCD901	1-804-298-11	DISPLAY PANEL, LIQUID CRYSTAL	
#1	7-685-794-09	SCREW +PTT 2.6X10 (S)	

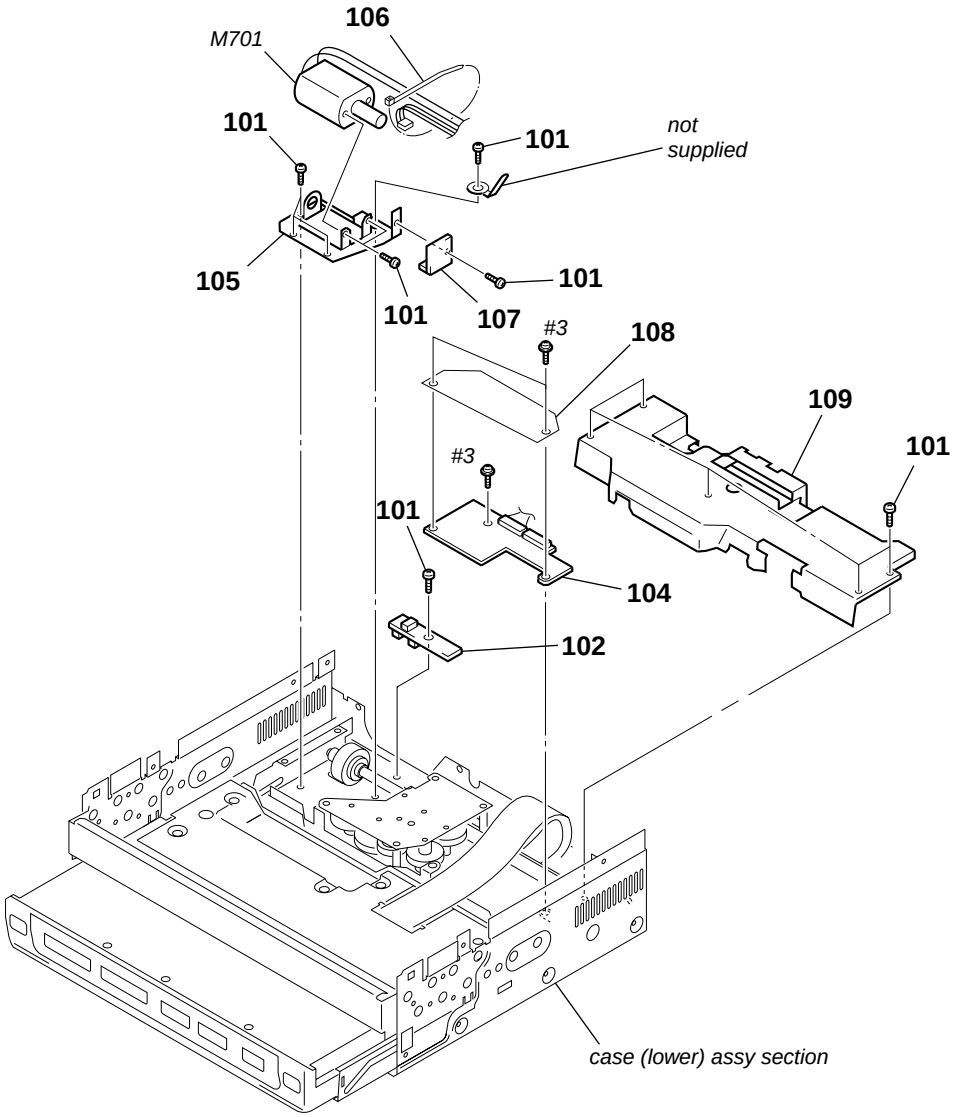
7-2. CASE (UPPER) ASSY SECTION

Note: This illustration is being written under the condition that a cover (upper) assy is overturned.



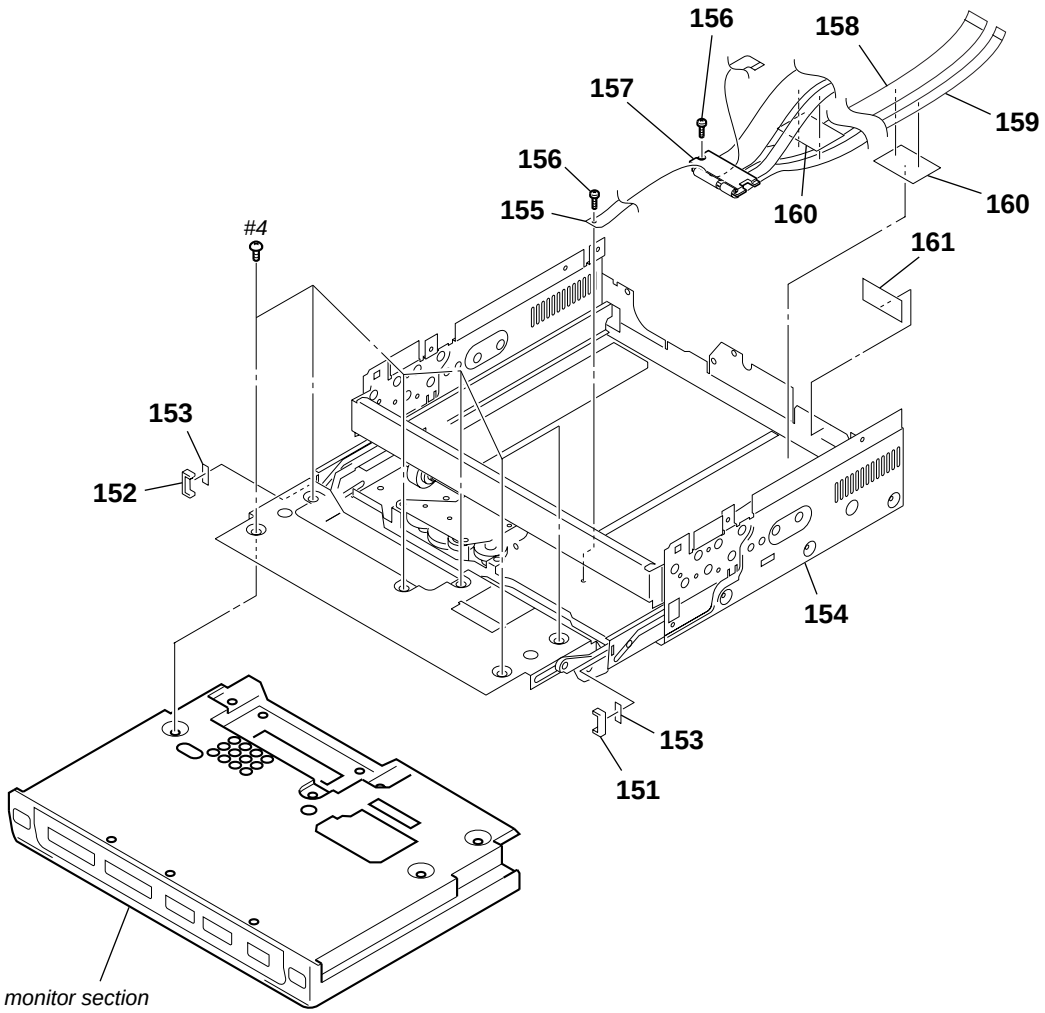
Ref. No.	Part No.	Description	Remark
51	3-241-402-01	CASE (UPPER)	
52	3-241-414-01	SHEET (UPPER), INSULATING	
53	3-244-526-01	SHEET (ELECTROMAGNETIC)	
* 54	3-040-998-01	BRACKET (IC)	
55	1-685-239-11	FM BOARD	
57	3-241-401-01	HEAT SINK	
58	A-3274-347-A	MAIN BOARD, COMPLETE (US)	
58	A-3274-456-A	MAIN BOARD, COMPLETE (E)	
59	1-824-238-11	CORD, CONNECTION (ANT)	
60	1-824-239-11	CORD (WITH CONNECTOR) (RCA) (SUB WOOFER OUT, REAR/FRONT OUT)	
TU2	A-3220-812-A	TUNER UNIT (TUX-020)	
#1	7-685-794-09	SCREW +PTT 2.6X10 (S)	
#2	7-685-791-09	SCREW +PTT 2.6X5 (S)	

7-3. OPEN CLOSE MOTOR SECTION



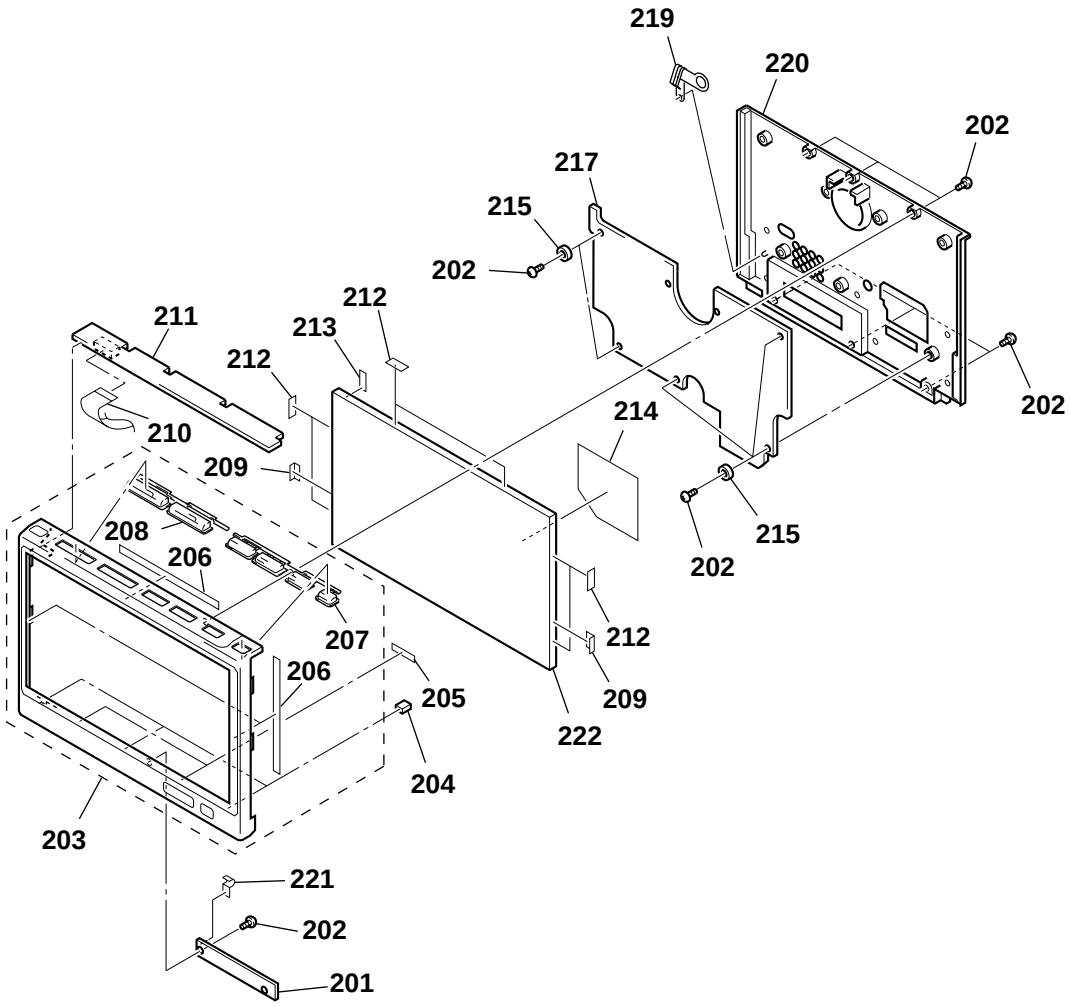
Ref. No.	Part No.	Description	Remark
101	3-241-413-01	SCREW (M2X2.3), PRECISION	
102	1-676-685-31	SWITCH BOARD	
104	A-3315-662-A	MOTOR BOARD, COMPLETE	
* 105	3-036-067-01	BRACKET, MOTOR	
106	3-905-744-01	BAND	
107	1-676-686-31	PULSE BOARD	
* 108	3-046-774-02	SHEET (2), INSULATING	
* 109	3-036-033-01	COVER	
M701	X-3378-925-1	MOTOR ASSY (MONITOR OPEN/CLOSE)	
#3	7-621-772-18	SCREW (+B 2X4)	

7-4. CASE (LOWER) ASSY SECTION



Ref. No.	Part No.	Description	Remark
151	3-036-462-01	PROTECTOR (R)	
152	3-036-463-01	PROTECTOR (L)	
153	3-045-569-01	TAPE (P)	
154	X-3381-953-1	CASE (LOWER) ASSY	
155	3-041-841-01	SHEET (A), GROUND	
156	3-241-413-01	SCREW (M2X2.3), PRECISION	
* 157	3-040-901-01	RETAINER, FLEXIBLE	
158	1-792-038-11	CABLE, FLAT 40P	
159	1-792-037-11	CABLE, FLAT 16P	
* 160	3-037-659-01	SHEET (TAPE)	
161	3-039-005-01	SHEET (PROTECTION 2)	
#4	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	

7-5. MONITOR SECTION



Ref. No.	Part No.	Description	Remark
201	A-3274-448-A	ANGLE BOARD, COMPLETE	
202	3-945-884-11	SCREW (2X6)	
203	X-3381-955-1	CABINET ASSY, MONITOR (F) (US)	
203	X-3382-251-1	CABINET ASSY, MONITOR (F) (E)	
* 204	3-037-280-02	RUBBER (2), LCD RETAINER	
205	3-041-838-11	TAPE, LCD	
206	3-040-075-01	SHEET (2), LCD (E)	
206	3-040-075-11	SHEET (2), LCD (US)	
207	3-037-145-31	BUTTON (R), MONITOR (T) (SOURCE, MODE, ATT, OPEN/CLOSE)	
208	3-037-144-31	BUTTON (L), MONITOR (T) (VOL, SEEK)	
209	3-037-441-01	SHEET, LCD	
210	1-790-713-11	CABLE, FLAT 10P	
211	A-3274-446-A	KEY BOARD, COMPLETE	
212	3-039-160-01	SHEET (3), LCD (E)	
212	3-039-160-11	SHEET (3), LCD (US)	
213	3-041-839-01	TAPE (A), CONDUCTIVE	
* 214	3-012-027-01	SHEET (IC) (E)	
214	3-012-027-21	SHEET (IC) (US)	
* 215	3-036-034-01	RETAINER, PCB	
217	A-3274-450-A	MONITOR BOARD, COMPLETE	
* 219	3-040-079-01	SPRING, GROUND	
220	X-3381-956-1	CABINET ASSY, MONITOR (R) (US)	
220	X-3382-277-1	CABINET ASSY, MONITOR (R) (E)	
221	3-360-123-01	PLATE (C), GROUND	
222	1-804-076-11	DISPLAY PANEL, LIQUID CRYSTAL	

SECTION 8
ANGLE FM FRONT ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-3274-448-A	ANGLE BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C750	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C755	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
		< CONNECTOR >			
CN750	1-770-624-21	PIN, CONNECTOR 7P			
		< LED >			
D750	8-719-078-39	LED CL-170SR-CD-T (ANGLE)			
		< IC >			
IC750	8-759-515-60	IC RS-20			
		< TRANSISTOR >			
Q756	8-729-905-34	TRANSISTOR	2SC4081-Q		
		< RESISTOR >			
R745	1-216-797-11	METAL CHIP	10	5%	1/10W
R749	1-216-809-11	METAL CHIP	100	5%	1/10W
R750	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R753	1-216-186-00	RES-CHIP	330	5%	1/8W
R754	1-216-186-00	RES-CHIP	330	5%	1/8W
R755	1-216-186-00	RES-CHIP	330	5%	1/8W
R761	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R762	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R764	1-216-833-11	METAL CHIP	10K	5%	1/10W
R766	1-216-805-11	METAL CHIP	47	5%	1/10W
		< SWITCH >			
SW750	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (ANGLE –)			
SW751	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (ANGLE +)			
**********					
	1-685-239-11	FM BOARD			
		*********			
		(Included in MAIN BOARD, COMPLETE)			
		< CAPACITOR >			
C96	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C136	1-163-233-11	CERAMIC CHIP	18PF	5%	16V

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
* CN6	1-565-897-11	PIN, BOARD TO BOARD 18P			
* CN20	1-506-998-11	PIN, CONNECTOR (PC BOARD) 2P			
		< RESISTOR >			
R7	1-216-809-11	RES-CHIP	100	5%	1/10W
R124	1-216-864-11	SHORT CHIP	0		
R125	1-216-864-11	SHORT CHIP	0		
R126	1-216-809-11	RES-CHIP	100	5%	1/10W
		< TUNER UNIT >			
TU2	A-3220-812-A	TUNER UNIT (TUX-020)			
**********					
	A-3274-353-A	FRONT BOARD, COMPLETE			
		**********			
	1-694-781-11	CONDUCTIVE BOARD, CONNECTION			
*	3-224-870-01	PLATE (LCD) , LIGHT GUIDE			
*	3-224-896-02	PLATE (LCD) , GROUND			
	3-241-408-01	ILLUMINATOR (LCD)			
	3-241-409-01	REFLECTOR (LCD)			
	3-241-417-01	SHEET (LCD)			
		< CAPACITOR >			
C121	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C122	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C123	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C124	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN4	1-784-254-11	CONNECTOR 10P			
		< DIODE >			
D10	8-719-976-99	DIODE DTZ5.1B			
		< IC >			
IC14	8-759-365-90	IC LC75824W			
		< LIQUID CRYSTAL DISPLAY >			
LCD901	1-804-298-11	DISPLAY PANEL, LIQUID CRYSTAL			

FRONT **KEY** **MAIN**

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
LSW965	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (OFF)			
LSW966	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (DISC +)			
LSW967	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (DISC –)			
		< PILOT LAMP >			
PL1	1-518-743-41	LAMP (LCD BACK LIGHT)			
PL2	1-518-743-41	LAMP (LCD BACK LIGHT)			
		< TRANSISTOR >			
Q901	8-729-025-48	TRANSISTOR	XN4381		
		< RESISTOR >			
R31	1-218-953-11	RES-CHIP	1K	5%	1/16W
R44	1-218-941-11	RES-CHIP	100	5%	1/16W
R108	1-216-795-11	RES-CHIP	6.8	5%	1/10W
R127	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R132	1-216-795-11	RES-CHIP	6.8	5%	1/10W
R134	1-218-953-11	RES-CHIP	1K	5%	1/16W
R136	1-218-953-11	RES-CHIP	1K	5%	1/16W
R138	1-218-953-11	RES-CHIP	1K	5%	1/16W
R139	1-216-851-11	METAL CHIP	330K	5%	1/10W
R140	1-216-864-11	SHORT CHIP	0		
R141	1-216-813-11	METAL CHIP	220	5%	1/10W
R142	1-216-813-11	METAL CHIP	220	5%	1/10W
R143	1-216-813-11	METAL CHIP	220	5%	1/10W
R956	1-216-031-00	METAL CHIP	180	5%	1/10W
R957	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
		< SWITCH >			
SW960	1-771-884-11	SWITCH, TACTILE (RESET)			
**********					
	A-3274-446-A	KEY BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-107-686-11	TANTALUM CHIP	4.7uF	20%	16V
C102	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C103	1-107-686-11	TANTALUM CHIP	4.7uF	20%	16V
C104	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN101	1-750-350-21	CONNECTOR, FFC/FPC (ZIF) 10P			
		< LED >			
D106	8-719-078-39	LED CL-170SR-CD-T (VOL)			
D107	8-719-078-39	LED CL-170SR-CD-T (SEEK)			
D110	8-719-078-39	LED CL-170SR-CD-T (SOURCE)			
D111	8-719-078-39	LED CL-170SR-CD-T (SOURCE)			
D112	8-719-078-39	LED CL-170SR-CD-T (OPEN/CLOSE)			
		< TRANSISTOR >			
Q101	8-729-101-07	TRANSISTOR	2SB798-DL		
Q102	8-729-029-06	TRANSISTOR	DTC124EUA-T106		

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R110	1-216-198-00	RES-CHIP	1K	5%	1/8W
R111	1-216-198-00	RES-CHIP	1K	5%	1/8W
R112	1-216-198-00	RES-CHIP	1K	5%	1/8W
R113	1-216-198-00	RES-CHIP	1K	5%	1/8W
R114	1-216-190-00	RES-CHIP	470	5%	1/8W
R115	1-216-198-00	RES-CHIP	1K	5%	1/8W
R116	1-216-864-11	SHORT CHIP	0		
R118	1-216-865-11	METAL CHIP	3K	5%	1/10W
R119	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R120	1-216-198-00	RES-CHIP	1K	5%	1/8W
R121	1-216-198-00	RES-CHIP	1K	5%	1/8W
R122	1-216-198-00	RES-CHIP	1K	5%	1/8W
R123	1-216-190-00	RES-CHIP	470	5%	1/8W
R125	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R126	1-216-836-11	METAL CHIP	18K	5%	1/10W
R127	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R128	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R129	1-216-295-00	SHORT CHIP	0		
R137	1-216-864-11	SHORT CHIP	0		
R142	1-216-819-11	METAL CHIP	680	5%	1/10W
R143	1-216-864-11	SHORT CHIP	0		
R147	1-216-864-11	SHORT CHIP	0		
R150	1-216-198-00	RES-CHIP	1K	5%	1/8W
R151	1-216-198-00	RES-CHIP	1K	5%	1/8W
R152	1-216-198-00	RES-CHIP	1K	5%	1/8W
		< SWITCH >			
SW101	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (VOL –)			
SW102	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (VOL +)			
SW103	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SEEK – ⏮)			
SW104	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SEEK + ⏭)			
SW105	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (ATT)			
SW106	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (SOURCE)			
SW107	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (MODE)			
SW108	1-771-476-11	SWITCH, KEY BOARD (WITH LED) (OPEN/CLOSE)			
**********					
	A-3274-347-A	MAIN BOARD, COMPLETE (US)			
	A-3274-456-A	MAIN BOARD, COMPLETE (E)			
		**********			
		(Including FM BOARD)			
*	3-040-998-01	BRACKET (IC)			
	3-241-401-01	HEAT SINK			
	7-685-794-09	SCREW +PTT 2.6X10 (S)			
		< CAPACITOR >			
C22	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C30	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C31	1-117-681-11	ELECT CHIP	100uF	20%	16V
C33	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C41	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C51	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C52	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C76	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C77	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V

MAIN

Ref. No.	Part No.	Description			Remark
C78	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C97	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C98	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C100	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C101	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C116	1-128-994-21	ELECT CHIP	47uF	20%	10V
C117	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C118	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C119	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C127	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C128	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V
C129	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C130	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C131	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C132	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C133	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C141	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C142	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C143	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C202	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C207	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C211	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C212	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C217	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C218	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C219	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C220	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C225	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C232	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C233	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V
C238	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C239	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C245	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C246	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C247	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C253	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C254	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C257	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C262	1-117-681-11	ELECT CHIP	100uF	20%	16V
C263	1-117-681-11	ELECT CHIP	100uF	20%	16V
C264	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C265	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C266	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C267	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C268	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C269	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C270	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C275	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C276	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C277	1-125-889-11	CERAMIC CHIP	2.2uF	10%	10V
C281	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C282	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C283	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C291	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C292	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C293	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C294	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remark
C331	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C334	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C335	1-124-779-00	ELECT CHIP	10uF	20%	16V
C343	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C344	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C345	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V
C346	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C347	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C348	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C349	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C350	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C351	1-128-994-21	ELECT CHIP	47uF	20%	10V
C355	1-126-204-11	ELECT CHIP	47uF	20%	16V
C356	1-124-779-00	ELECT CHIP	10uF	20%	16V
C358	1-124-779-00	ELECT CHIP	10uF	20%	16V
C360	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C361	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C362	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C363	1-117-681-11	ELECT CHIP	100uF	20%	16V
C364	1-117-681-11	ELECT CHIP	100uF	20%	16V
C365	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C366	1-117-681-11	ELECT CHIP	100uF	20%	16V
C555	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C556	1-117-681-11	ELECT CHIP	100uF	20%	16V
C600	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C601	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C602	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C603	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C604	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C606	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C608	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C609	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C610	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C611	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C612	1-115-156-11	CERAMIC CHIP	1uF		10V
C613	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C700	1-107-726-11	CERAMIC CHIP	0.01uF	10%	16V
C702	1-107-726-11	CERAMIC CHIP	0.01uF	10%	16V
C706	1-107-726-11	CERAMIC CHIP	0.01uF	10%	16V
C710	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C714	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C715	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C716	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C721	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C722	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C723	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C724	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C725	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C726	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C727	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C728	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C729	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C730	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C731	1-125-710-11	DOUBLE LAYER	0.1F		5.5V
C732	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C733	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C734	1-125-710-11	DOUBLE LAYER	0.1F		5.5V
C751	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description			Remark
C841	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C843	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C844	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C845	1-165-642-11	ELECT CHIP	39uF	20%	16V
C846	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C860	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C861	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C862	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C863	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C864	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C865	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C866	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C867	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C868	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C869	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C870	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C871	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C902	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C904	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C905	1-162-911-11	CERAMIC CHIP	6PF	0.5PF	50V
C906	1-162-911-11	CERAMIC CHIP	6PF	0.5PF	50V
C907	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C908	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C911	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C912	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C913	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C915	1-125-827-11	CERAMIC CHIP	1uF	10%	25V
C916	1-128-754-11	ELECT	3300uF	20%	25V
C921	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C922	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C923	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
		< CONNECTOR >			
CN2	1-794-270-21	CONNECTOR 22P			
* CN3	1-506-991-11	PIN, CONNECTOR (PC BOARD) 9P			
CN5	1-770-627-21	PIN, CONNECTOR 10P			
CN14	1-793-019-21	CONNECTOR, FFC/FPC (ZIF) 40P			
CN15	1-793-018-21	CONNECTOR, FFC/FPC (ZIF) 16P			
CN701	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
CN901	1-793-277-11	PLUG, CONNECTOR 16P			
		< DIODE >			
D6	8-719-047-99	DIODE	HZU5.6B3TRF		
D11	8-719-801-78	DIODE	1SS184		
D13	8-719-801-78	DIODE	1SS184		
D15	8-719-801-78	DIODE	1SS184		
D100	8-719-053-18	DIODE	1SR154-400TE-25		
D101	8-719-053-18	DIODE	1SR154-400TE-25		
D102	8-719-053-18	DIODE	1SR154-400TE-25		
D103	8-719-053-18	DIODE	1SR154-400TE-25		
D200	8-719-053-18	DIODE	1SR154-400TE-25		
D201	8-719-053-18	DIODE	1SR154-400TE-25		
D202	8-719-053-18	DIODE	1SR154-400TE-25		
D203	8-719-053-18	DIODE	1SR154-400TE-25		
D204	8-719-026-42	DIODE	SFPB-74		
D205	8-719-026-42	DIODE	SFPB-74		
D310	8-719-404-50	DIODE	MA111-TX		

Ref. No.	Part No.	Description	Remark
D311	8-719-404-50	DIODE MA111-TX	
D313	8-719-404-50	DIODE MA111-TX	
D314	8-719-404-50	DIODE MA111-TX	
D315	8-719-404-50	DIODE MA111-TX	
D316	8-719-404-50	DIODE MA111-TX	
D701	8-719-820-05	DIODE 1SS181	
D703	8-719-404-50	DIODE MA111-TX	
D752	8-719-977-03	DIODE DTZ5.6B	
D755	8-719-801-78	DIODE 1SS184	
D759	8-719-422-64	DIODE MA8062-M	
D760	8-719-057-80	DIODE MA8180-M-TX	
D761	8-719-033-43	DIODE RB751H	
D762	8-719-057-80	DIODE MA8180-M-TX	
D764	8-719-404-50	DIODE MA111-TX	
D765	8-719-057-80	DIODE MA8180-M-TX	
D766	8-719-057-80	DIODE MA8180-M-TX	
D767	8-719-057-80	DIODE MA8180-M-TX	
D770	8-719-057-80	DIODE MA8180-M-TX	
D771	8-719-057-80	DIODE MA8180-M-TX	
D772	8-719-057-80	DIODE MA8180-M-TX	
D773	8-719-057-80	DIODE MA8180-M-TX	
D774	8-719-057-80	DIODE MA8180-M-TX	
D775	8-719-057-80	DIODE MA8180-M-TX	
D776	8-719-057-80	DIODE MA8180-M-TX	
D777	8-719-057-80	DIODE MA8180-M-TX	
D778	8-719-057-80	DIODE MA8180-M-TX	
D779	8-719-057-80	DIODE MA8180-M-TX	
D780	8-719-057-80	DIODE MA8180-M-TX	
D781	8-719-057-80	DIODE MA8180-M-TX	
D782	8-719-057-80	DIODE MA8180-M-TX	
D783	8-719-057-80	DIODE MA8180-M-TX	
D784	8-719-057-80	DIODE MA8180-M-TX	
D800	8-719-404-50	DIODE MA111-TX	
D811	8-719-047-98	DIODE HZU5.6B2TRF	
D812	8-719-105-99	DIODE RD6.2M-B1	
D813	8-719-053-18	DIODE 1SR154-400TE-25	
D814	8-719-053-18	DIODE 1SR154-400TE-25	
D815	8-719-404-50	DIODE MA111-TX	
D900	8-719-404-50	DIODE MA111-TX	
D903	8-719-053-18	DIODE 1SR154-400TE-25	
D908	8-719-053-18	DIODE 1SR154-400TE-25	
D909	8-719-820-05	DIODE 1SS181	
D910	8-719-053-18	DIODE 1SR154-400TE-25	
D912	8-719-053-18	DIODE 1SR154-400TE-25	
D918	8-719-049-38	DIODE 1N5404TU	
		< FUSE >	
F1	1-533-922-21	FUSE, CHIP (1A)	
F2	1-576-410-21	FUSE, CHIP (2A)	
F201	1-533-922-21	FUSE, CHIP (1A)	
		< FERRITE BEAD >	
FB901	1-414-235-22	FERRITE BEAD	
		< IC >	
IC1	6-701-371-01	IC MC74LCX16244DTR2	
IC2	6-702-383-01	IC MB90096PF-G-238-BND	
IC3	8-759-523-81	IC TC74VHC08FT (EL)	

MAIN

Ref. No.	Part No.	Description	Remark
IC4	8-759-234-20	IC TC7S08F	
IC5	8-759-523-81	IC TC74VHC08FT (EL)	
IC6	8-759-523-80	IC TC74VHC04FT (EL)	
IC7	8-759-491-50	IC TC74VHCT244AFT (EL)	
IC9	8-759-530-28	IC TC4066BFT (EL, N)	
IC10	8-759-392-01	IC TC7SH86FU-TE85R	
IC11	8-759-523-04	IC TC74HC4538AFT	
IC12	8-759-486-53	IC NJM2370	
IC13	8-759-643-48	IC BA00ASFP-E2	
IC15	8-749-016-25	IC NJM2286V (TE2)	
IC101	8-759-278-58	IC NJM4558V-TE2	
IC171	8-759-827-14	IC TA8268AH	
IC201	8-759-278-58	IC NJM4558V-TE2	
IC302	6-701-403-01	IC TDA7406	
IC304	8-759-476-23	IC BA08SFP-E2	
IC703	6-802-187-01	IC MB90574CPMT-G-387-BND1	
IC704	8-759-571-49	IC XC61AN4102PR	
IC705	8-759-495-76	IC RN5VD33AA-TL	
IC751	8-759-449-89	IC BA8270F-E2	
IC860	8-759-990-43	IC TL1451ACDB	
IC900	6-801-846-01	IC HD6432398A07FWV	
IC901	8-759-495-76	IC RN5VD33AA-TL	
		< JACK >	
J901	1-566-822-41	JACK (REMOTE IN)	
		< COIL >	
L2	1-414-771-11	INDUCTOR CHIP 10uH	
L3	1-412-030-11	INDUCTOR CHIP 22uH	
L4	1-414-771-11	INDUCTOR CHIP 10uH	
L5	1-414-771-11	INDUCTOR CHIP 10uH	
L201	1-412-030-11	INDUCTOR CHIP 22uH	
L202	1-412-029-11	INDUCTOR CHIP 10uH	
L308	1-412-058-11	INDUCTOR CHIP 10uH	
L309	1-416-511-11	COIL, CHOKE 47uH	
L311	1-416-436-11	COIL, CHOKE 68uH	
L700	1-412-030-11	INDUCTOR CHIP 22uH	
L807	1-412-058-11	INDUCTOR CHIP 10uH	
L901	1-411-670-21	COIL, CHOKE 400uH	
		< TRANSISTOR >	
Q1	8-729-044-78	FET 2SJ327-Z-E1	
Q2	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q3	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q4	8-729-044-78	FET 2SJ327-Z-E1	
Q13	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q198	8-729-230-60	TRANSISTOR 2SA1586YG	
Q199	8-729-230-60	TRANSISTOR 2SA1586YG	
Q200	8-729-230-60	TRANSISTOR 2SA1586YG	
Q301	8-729-424-08	TRANSISTOR UN2111	
Q306	8-729-424-08	TRANSISTOR UN2111	
Q307	8-729-421-22	TRANSISTOR UN2211	
Q310	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q311	8-729-047-71	TRANSISTOR FMG12-T-148	
Q312	8-729-047-71	TRANSISTOR FMG12-T-148	
Q753	8-729-424-08	TRANSISTOR UN2111	
Q754	8-729-421-22	TRANSISTOR UN2211	

Ref. No.	Part No.	Description	Remark
Q802	8-729-421-22	TRANSISTOR UN2211	
Q809	8-729-807-12	TRANSISTOR 2SD1802-S	
Q810	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q811	8-729-421-22	TRANSISTOR UN2211	
Q860	8-729-026-59	TRANSISTOR FMY1A-T148	
Q861	8-729-026-59	TRANSISTOR FMY1A-T148	
Q862	8-729-049-13	FET uPA1853GR-9JG-E1	
Q900	8-729-049-13	FET uPA1853GR-9JG-E1	
Q902	8-729-429-92	TRANSISTOR XN1211	
Q904	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q906	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q908	8-729-025-48	TRANSISTOR XN4381	
Q910	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q912	8-729-424-08	TRANSISTOR UN2111	
		< RESISTOR >	
R1	1-216-809-11	METAL CHIP 100 5% 1/10W	
R2	1-216-809-11	METAL CHIP 100 5% 1/10W	
R3	1-216-813-11	METAL CHIP 220 5% 1/10W	
R8	1-216-864-11	SHORT CHIP 0	
R10	1-216-864-11	SHORT CHIP 0	
R11	1-216-864-11	SHORT CHIP 0	
R12	1-218-941-11	RES-CHIP 100 5% 1/16W	
R13	1-216-809-11	METAL CHIP 100 5% 1/10W	
R15	1-218-953-11	RES-CHIP 1K 5% 1/16W	
R16	1-216-809-11	METAL CHIP 100 5% 1/10W	
R18	1-216-864-11	SHORT CHIP 0	
R20	1-216-809-11	METAL CHIP 100 5% 1/10W	
R22	1-216-845-11	METAL CHIP 100K 5% 1/10W	(US)
R23	1-216-845-11	METAL CHIP 100K 5% 1/10W	(E)
R35	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R36	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R42	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R43	1-216-845-11	METAL CHIP 100K 5% 1/10W	(E)
R45	1-216-845-11	METAL CHIP 100K 5% 1/10W	(E)
R48	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R49	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R51	1-216-864-11	SHORT CHIP 0	
R52	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R89	1-216-864-11	SHORT CHIP 0	
R90	1-218-949-11	RES-CHIP 470 5% 1/16W	
R91	1-216-817-11	METAL CHIP 470 5% 1/10W	
R93	1-216-817-11	METAL CHIP 470 5% 1/10W	
R94	1-218-949-11	RES-CHIP 470 5% 1/16W	
R95	1-218-949-11	RES-CHIP 470 5% 1/16W	
R96	1-216-864-11	SHORT CHIP 0	
R97	1-216-864-11	SHORT CHIP 0	
R98	1-216-864-11	SHORT CHIP 0	
R123	1-216-025-11	RES-CHIP 100 5% 1/10W	
R128	1-218-728-11	METAL CHIP 33K 0.5% 1/16W	
R129	1-218-710-11	METAL CHIP 5.6K 0.5% 1/16W	
R130	1-216-296-11	SHORT CHIP 0	
R131	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R144	1-216-809-11	METAL CHIP 100 5% 1/10W	
R145	1-216-809-11	METAL CHIP 100 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R148	1-216-833-11	METAL CHIP	10K	5%	1/10W
R149	1-216-833-11	METAL CHIP	10K	5%	1/10W
R150	1-216-809-11	METAL CHIP	100	5%	1/10W
R151	1-216-841-11	METAL CHIP	47K	5%	1/10W
R152	1-216-864-11	SHORT CHIP	0		
R153	1-216-809-11	METAL CHIP	100	5%	1/10W
R154	1-216-841-11	METAL CHIP	47K	5%	1/10W
R155	1-216-864-11	SHORT CHIP	0		
R156	1-216-025-11	RES-CHIP	100	5%	1/10W
R157	1-216-025-11	RES-CHIP	100	5%	1/10W
R159	1-216-837-11	METAL CHIP	22K	5%	1/10W
R161	1-216-833-11	METAL CHIP	10K	5%	1/10W
R162	1-216-845-11	METAL CHIP	100K	5%	1/10W
R163	1-216-845-11	METAL CHIP	100K	5%	1/10W
R164	1-208-707-11	METAL CHIP	10K	0.5%	1/16W
R165	1-216-835-11	METAL CHIP	15K	5%	1/10W
R166	1-218-977-11	RES-CHIP	100K	5%	1/16W
R167	1-218-977-11	RES-CHIP	100K	5%	1/16W
R168	1-218-977-11	RES-CHIP	100K	5%	1/16W
R169	1-218-977-11	RES-CHIP	100K	5%	1/16W
R170	1-218-977-11	RES-CHIP	100K	5%	1/16W
R171	1-218-977-11	RES-CHIP	100K	5%	1/16W
R172	1-216-833-11	METAL CHIP	10K	5%	1/10W
R173	1-218-977-11	RES-CHIP	100K	5%	1/16W
R174	1-218-977-11	RES-CHIP	100K	5%	1/16W
R175	1-218-977-11	RES-CHIP	100K	5%	1/16W
R176	1-218-977-11	RES-CHIP	100K	5%	1/16W
R179	1-216-835-11	METAL CHIP	15K	5%	1/10W
R180	1-216-833-11	METAL CHIP	10K	5%	1/10W
R181	1-216-835-11	METAL CHIP	15K	5%	1/10W
R182	1-216-835-11	METAL CHIP	15K	5%	1/10W
R183	1-216-833-11	METAL CHIP	10K	5%	1/10W
R185	1-216-833-11	METAL CHIP	10K	5%	1/10W
R200	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R202	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R203	1-216-837-11	METAL CHIP	22K	5%	1/10W
R206	1-216-865-11	METAL CHIP	3K	5%	1/10W
R208	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R209	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R210	1-216-865-11	METAL CHIP	3K	5%	1/10W
R211	1-216-834-11	METAL CHIP	12K	5%	1/10W
R220	1-216-834-11	METAL CHIP	12K	5%	1/10W
R221	1-218-272-11	RES-CHIP	5.1K	5%	1/10W
R222	1-218-950-11	RES-CHIP	560	5%	1/16W
R223	1-216-809-11	METAL CHIP	100	5%	1/10W
R225	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R227	1-218-344-11	RES-CHIP	7.5K	5%	1/10W
R228	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R229	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
R231	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R233	1-216-834-11	METAL CHIP	12K	5%	1/10W
R234	1-218-272-11	RES-CHIP	5.1K	5%	1/10W
R235	1-218-950-11	RES-CHIP	560	5%	1/16W
R236	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R237	1-216-809-11	METAL CHIP	100	5%	1/10W
R239	1-216-834-11	METAL CHIP	12K	5%	1/10W
R240	1-218-956-11	RES-CHIP	1.8K	5%	1/10W
R241	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
R242	1-216-833-11	METAL CHIP	10K	5%	1/10W
R243	1-220-191-11	RES-CHIP	5.1K	5%	1/16W
R244	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R245	1-218-272-11	RES-CHIP	5.1K	5%	1/10W
R246	1-216-834-11	METAL CHIP	12K	5%	1/10W
R247	1-216-809-11	METAL CHIP	100	5%	1/10W
R250	1-218-950-11	RES-CHIP	560	5%	1/16W
R251	1-216-025-11	RES-CHIP	100	5%	1/10W
R253	1-216-025-11	RES-CHIP	100	5%	1/10W
R254	1-218-953-11	METAL CHIP	1K	5%	1/16W
R255	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R256	1-218-953-11	METAL CHIP	1K	5%	1/16W
R262	1-216-833-11	METAL CHIP	10K	5%	1/10W
R264	1-216-809-11	METAL CHIP	100	5%	1/10W
R265	1-216-841-11	METAL CHIP	47K	5%	1/10W
R266	1-216-864-11	SHORT CHIP	0		
R268	1-216-841-11	METAL CHIP	47K	5%	1/10W
R269	1-216-864-11	SHORT CHIP	0		
R281	1-216-833-11	METAL CHIP	10K	5%	1/10W
R307	1-216-845-11	METAL CHIP	100K	5%	1/10W
R323	1-216-025-11	RES-CHIP	100	5%	1/10W
R327	1-216-049-11	RES-CHIP	1K	5%	1/10W
R331	1-218-867-11	RES-CHIP	6.8K	5%	1/10W
R332	1-216-864-11	SHORT CHIP	0		
R333	1-216-841-11	METAL CHIP	47K	5%	1/10W
R334	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R335	1-216-017-00	RES-CHIP	47	5%	1/10W
R336	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R340	1-216-073-00	RES-CHIP	10K	5%	1/10W
R341	1-216-073-00	RES-CHIP	10K	5%	1/10W
R342	1-216-025-11	RES-CHIP	100	5%	1/10W
R343	1-216-809-11	METAL CHIP	100	5%	1/10W
R344	1-216-809-11	METAL CHIP	100	5%	1/10W
R346	1-216-841-11	METAL CHIP	47K	5%	1/10W
R347	1-216-809-11	METAL CHIP	100	5%	1/10W
R348	1-216-809-11	METAL CHIP	100	5%	1/10W
R349	1-216-809-11	METAL CHIP	100	5%	1/10W
R539	1-216-089-11	RES-CHIP	47K	5%	1/10W
R601	1-216-809-11	METAL CHIP	100	5%	1/10W
R602	1-216-809-11	METAL CHIP	100	5%	1/10W
R603	1-216-809-11	METAL CHIP	100	5%	1/10W
R605	1-216-813-11	METAL CHIP	220	5%	1/10W
R606	1-216-813-11	METAL CHIP	220	5%	1/10W
R607	1-216-813-11	METAL CHIP	220	5%	1/10W
R608	1-216-811-11	METAL CHIP	150	5%	1/10W
R609	1-216-810-11	METAL CHIP	120	5%	1/10W
R610	1-218-965-11	RES-CHIP	10K	5%	1/16W
R646	1-216-821-11	METAL CHIP	1K	5%	1/10W
R700	1-216-813-11	METAL CHIP	220	5%	1/10W
R703	1-216-845-11	METAL CHIP	100K	5%	1/10W
R721	1-216-809-11	METAL CHIP	100	5%	1/10W
R722	1-216-809-11	METAL CHIP	100	5%	1/10W
R723	1-216-809-11	METAL CHIP	100	5%	1/10W
R724	1-218-941-11	RES-CHIP	100	5%	1/16W
R727	1-216-809-11	METAL CHIP	100	5%	1/10W
R728	1-218-977-11	RES-CHIP	100K	5%	1/16W
R738	1-218-977-11	RES-CHIP	100K	5%	1/16W

MAIN **MONITOR**

Ref. No.	Part No.	Description			Remark
R739	1-216-809-11	METAL CHIP	100	5%	1/10W
R744	1-216-809-11	METAL CHIP	100	5%	1/10W
R745	1-216-845-11	METAL CHIP	100K	5%	1/10W
R746	1-216-845-11	METAL CHIP	100K	5%	1/10W
R747	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R748	1-216-833-11	METAL CHIP	10K	5%	1/10W
R749	1-216-833-11	METAL CHIP	10K	5%	1/10W
R758	1-216-833-11	METAL CHIP	10K	5%	1/10W
R759	1-218-987-11	RES-CHIP	680K	5%	1/16W
R760	1-218-977-11	RES-CHIP	100K	5%	1/16W
R762	1-216-845-11	METAL CHIP	100K	5%	1/10W
R763	1-216-845-11	METAL CHIP	100K	5%	1/10W
R764	1-218-990-11	SHORT CHIP	0		
R767	1-218-985-11	RES-CHIP	470K	5%	1/16W
R768	1-218-941-11	RES-CHIP	100	5%	1/16W
R770	1-216-077-00	RES-CHIP	15K	5%	1/10W
R771	1-216-809-11	METAL CHIP	100	5%	1/10W
R772	1-216-049-11	RES-CHIP	1K	5%	1/10W
R773	1-216-809-11	METAL CHIP	100	5%	1/10W
R774	1-216-809-11	METAL CHIP	100	5%	1/10W
R838	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R851	1-216-089-11	RES-CHIP	47K	5%	1/10W
R860	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R861	1-218-721-11	METAL CHIP	16K	0.5%	1/16W
R862	1-216-835-11	METAL CHIP	15K	5%	1/10W
R863	1-216-835-11	METAL CHIP	15K	5%	1/10W
R864	1-216-039-00	METAL CHIP	390	5%	1/10W
R866	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R867	1-216-815-11	METAL CHIP	330	5%	1/10W
R868	1-216-813-11	METAL CHIP	220	5%	1/10W
R869	1-216-039-00	METAL CHIP	390	5%	1/10W
R871	1-216-815-11	METAL CHIP	330	5%	1/10W
R872	1-216-813-11	METAL CHIP	220	5%	1/10W
R901	1-216-813-11	METAL CHIP	220	5%	1/10W
R904	1-216-809-11	METAL CHIP	100	5%	1/10W
R905	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R907	1-216-845-11	METAL CHIP	100K	5%	1/10W
R911	1-218-945-11	RES-CHIP	220	5%	1/16W
R912	1-218-965-11	RES-CHIP	10K	5%	1/16W
R913	1-218-965-11	RES-CHIP	10K	5%	1/16W
R914	1-218-945-11	RES-CHIP	220	5%	1/16W
R915	1-218-945-11	RES-CHIP	220	5%	1/16W
R916	1-218-945-11	RES-CHIP	220	5%	1/16W
R917	1-216-845-11	METAL CHIP	100K	5%	1/10W
R918	1-216-089-11	RES-CHIP	47K	5%	1/10W
R919	1-218-945-11	RES-CHIP	220	5%	1/16W
R920	1-218-945-11	RES-CHIP	220	5%	1/16W
R921	1-216-813-11	METAL CHIP	220	5%	1/10W
R922	1-218-945-11	RES-CHIP	220	5%	1/16W
R923	1-216-809-11	METAL CHIP	100	5%	1/10W
R930	1-216-821-11	METAL CHIP	1K	5%	1/10W
R932	1-216-837-11	METAL CHIP	22K	5%	1/10W
R934	1-218-941-11	RES-CHIP	100	5%	1/16W
R935	1-208-707-11	METAL CHIP	10K	0.5%	1/16W
R936	1-218-973-11	RES-CHIP	47K	5%	1/16W
R937	1-216-833-11	METAL CHIP	10K	5%	1/10W
R938	1-216-845-11	METAL CHIP	100K	5%	1/10W
R939	1-218-990-11	SHORT CHIP	0		
R940	1-216-833-11	METAL CHIP	10K	5%	1/10W
R943	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R944	1-216-089-11	RES-CHIP	47K	5%	1/10W
R946	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R947	1-218-973-11	RES-CHIP	47K	5%	1/16W
R948	1-216-845-11	METAL CHIP	100K	5%	1/10W
R949	1-216-853-11	METAL CHIP	470K	5%	1/10W
R950	1-208-707-11	METAL CHIP	10K	0.5%	1/16W
R952	1-218-941-11	RES-CHIP	100	5%	1/16W
R953	1-218-941-11	RES-CHIP	100	5%	1/16W
R969	1-216-841-11	METAL CHIP	47K	5%	1/10W
R970	1-218-969-11	RES-CHIP	22K	5%	1/16W
R971	1-216-845-11	METAL CHIP	100K	5%	1/10W
R972	1-216-845-11	METAL CHIP	100K	5%	1/10W
R973	1-218-973-11	RES-CHIP	47K	5%	1/16W
R980	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1009	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
		< SWITCH >			
S1	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT) (E)			
		< THERMISTOR >			
TH752	1-801-792-21	THERMISTOR, POSITIVE			
TH900	1-803-615-21	THERMISTOR, POSITIVE			
TH901	1-803-615-21	THERMISTOR, POSITIVE			
		< VIBRATOR >			
X452	1-781-660-11	VIBRATOR, CERAMIC (3.58MHz)			
X701	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
X901	1-795-350-11	VIBRATOR, CERAMIC (18.432MHz)			
**********					
	A-3274-450-A	MONITOR BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C100	1-113-985-11	TANTALUM CHIP	10uF	20%	20V
C117	1-113-985-11	TANTALUM CHIP	10uF	20%	20V
C150	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C151	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C201	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C202	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C203	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C205	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C206	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C215	1-115-156-11	CERAMIC CHIP	1uF		10V
C216	1-115-156-11	CERAMIC CHIP	1uF		10V
C217	1-135-366-11	ELECT CHIP	100uF	20%	16V
C218	1-115-156-11	CERAMIC CHIP	1uF		10V
C219	1-115-156-11	CERAMIC CHIP	1uF		10V
C220	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C221	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C222	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C223	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C224	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C225	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C226	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C227	1-115-156-11	CERAMIC CHIP	1uF		10V
C228	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C231	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C232	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C233	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C234	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V
C235	1-135-367-21	ELECT CHIP	33uF	20%	25V
C236	1-135-366-11	ELECT CHIP	100uF	20%	16V
C240	1-115-156-11	CERAMIC CHIP	1uF		10V
C280	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C281	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C352	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C358	1-113-985-11	TANTALUM CHIP	10uF	20%	20V
C360	1-135-214-21	TANTALUM CHIP	4.7uF	20%	20V
C361	1-135-214-21	TANTALUM CHIP	4.7uF	20%	20V
C362	1-135-214-21	TANTALUM CHIP	4.7uF	20%	20V
C363	1-135-214-21	TANTALUM CHIP	4.7uF	20%	20V
C400	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C401	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C402	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C403	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C404	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C405	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C406	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C407	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C408	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C409	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C410	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C411	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C413	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C414	1-162-926-11	CERAMIC CHIP	82PF	5%	50V
C415	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C416	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C417	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C418	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C419	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V
C420	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C421	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C422	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C423	1-115-156-11	CERAMIC CHIP	1uF		10V
C424	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C425	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C426	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C427	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C428	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C429	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C430	1-117-808-11	CERAMIC CHIP	10uF	10%	10V
C431	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C435	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C453	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C455	1-104-913-11	TANTALUM CHIP	10uF	20%	16V
C502	1-107-417-11	ELECT CHIP	33uF	20%	25V
C503	1-104-607-11	ELECT CHIP	47uF	20%	16V
C505	1-128-415-11	ELECT CHIP	68uF	20%	10V
C506	1-135-366-11	ELECT CHIP	100uF	20%	16V
C507	1-135-366-11	ELECT CHIP	100uF	20%	16V
C509	1-135-366-11	ELECT CHIP	100uF	20%	16V
C511	1-107-417-11	ELECT CHIP	33uF	20%	25V
C512	1-135-366-11	ELECT CHIP	100uF	20%	16V
C515	1-135-367-21	ELECT CHIP	33uF	20%	25V
C522	1-115-156-11	CERAMIC CHIP	1uF		10V
C528	1-135-367-21	ELECT CHIP	33uF	20%	25V
C529	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C530	1-135-367-21	ELECT CHIP	33uF	20%	25V
C610	1-128-415-11	ELECT CHIP	68uF	20%	10V
C612	1-135-370-21	FILM	0.047uF	5%	100V
C613	1-113-520-11	CERAMIC CHIP	10PF	10%	3KV
C614	1-135-370-21	FILM	0.047uF	5%	100V
C615	1-113-520-11	CERAMIC CHIP	10PF	10%	3KV
C617	1-135-370-21	FILM	0.047uF	5%	100V
C620	1-135-367-21	ELECT CHIP	33uF	20%	25V
C632	1-135-367-21	ELECT CHIP	33uF	20%	25V
C633	1-115-156-11	CERAMIC CHIP	1uF		10V
C915	1-135-367-21	ELECT CHIP	33uF	20%	25V
C917	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C920	1-115-156-11	CERAMIC CHIP	1uF		10V
C921	1-128-590-11	ELECT CHIP	100uF	20%	6.3V
C922	1-128-590-11	ELECT CHIP	100uF	20%	6.3V
C923	1-115-156-11	CERAMIC CHIP	1uF		10V
C929	1-135-367-21	ELECT CHIP	33uF	20%	25V
C930	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C931	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C932	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C941	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C942	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C944	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C947	1-115-156-11	CERAMIC CHIP	1uF		10V
C948	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C949	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C950	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C951	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
C952	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C953	1-135-367-21	ELECT CHIP	33uF	20%	25V
C970	1-104-851-11	TANTALUM CHIP	10uF	20%	10V

< CONNECTOR >

CN201	1-770-105-21	CONNECTOR, FFC/FPC 40P
CN202	1-750-350-21	CONNECTOR, FFC/FPC (ZIF) 10P
CN203	1-750-340-21	CONNECTOR, FFC/EPC (ZIF) 16P
CN205	1-770-624-21	PIN, CONNECTOR 7P
CN301	1-784-342-21	HOUSING, CONNECTOR 2P
CN401	1-770-741-21	CONNECTOR, FFC/FPC 32P
CN601	1-793-020-11	PIN, CONNECTOR (PC BOARD) 4P

< DIODE >

D280	8-719-404-50	DIODE MA111-TX
D334	8-719-977-12	DIODE DTZ6.8B
D336	8-719-977-12	DIODE DTZ6.8B
D340	8-719-977-12	DIODE DTZ6.8B
D341	8-719-977-12	DIODE DTZ6.8B
D401	8-719-420-90	DIODE MA8051-M
D402	8-719-420-90	DIODE MA8051-M
D450	8-719-941-09	DIODE DAP202U
D451	8-719-022-91	DIODE MA335

MONITOR

Ref. No.	Part No.	Description	Remark
D502	8-719-941-09	DIODE DAP202U	
D503	8-719-941-09	DIODE DAP202U	
D505	8-719-941-09	DIODE DAP202U	
D506	8-719-941-09	DIODE DAP202U	
D604	8-719-048-98	DIODE RB160L-40TE25	
D900	8-719-048-98	DIODE RB160L-40TE25	
D959	8-719-404-50	DIODE MA111-TX	
		< FUSE >	
F101	1-533-922-21	FUSE, CHIP (1A)	
		< FERRITE BEAD >	
FB200	1-469-379-11	FERRITE 0uH	
FB400	1-469-379-11	FERRITE 0uH	
FB401	1-469-379-11	FERRITE 0uH	
FB402	1-469-379-11	FERRITE 0uH	
FB403	1-469-379-11	FERRITE 0uH	
FB500	1-469-379-11	FERRITE 0uH	
FB601	1-469-379-11	FERRITE 0uH	
		< IC >	
IC201	8-759-450-52	IC IR3Y29B4	
IC203	8-759-100-96	IC uPC4558G2	
IC204	8-759-058-58	IC TC7S04FU (TE85R)	
IC205	8-759-100-96	IC uPC4558G2	
IC250	8-759-586-19	IC TC7WH123FU (TE12R)	
IC280	8-759-058-58	IC TC7S04FU (TE85R)	
IC281	8-759-058-62	IC TC7S08FU (TE85R)	
IC355	8-759-245-47	IC TA78L09F-T1	
IC356	8-759-245-47	IC TA78L09F-T1	
IC401	6-700-980-01	IC LZ9GJ24	
IC450	8-759-655-66	IC NJL61V400A	
IC900	8-759-060-94	IC MB3785APFV-G-BND-ER	
		< COIL >	
L401	1-412-008-31	INDUCTOR CHIP 15uH	
L402	1-412-029-11	INDUCTOR CHIP 10uH	
L450	1-410-998-31	INDUCTOR CHIP 2.7uH	
L501	1-412-032-11	INDUCTOR CHIP 100uH	
L502	1-412-032-11	INDUCTOR CHIP 100uH	
L504	1-412-032-11	INDUCTOR CHIP 100uH	
L506	1-412-031-11	INDUCTOR CHIP 47uH	
L507	1-412-031-11	INDUCTOR CHIP 47uH	
L509	1-412-031-11	INDUCTOR CHIP 47uH	
L510	1-412-034-11	INDUCTOR CHIP 330uH	
L513	1-412-032-11	INDUCTOR CHIP 100uH	
L602	1-415-929-21	COIL, CHOKE 100uH	
L603	1-415-929-21	COIL, CHOKE 100uH	
L604	1-415-929-21	COIL, CHOKE 100uH	
L901	1-419-428-21	COIL, CHOKE 220uH	
L902	1-414-862-11	INDUCTOR CHIP 82uH	
L903	1-414-862-11	INDUCTOR CHIP 82uH	
		< TRANSISTOR >	
Q207	8-729-026-51	TRANSISTOR 2SA1576A-T106-Q	
Q208	8-729-140-75	TRANSISTOR 2SD999-CLCK	

Ref. No.	Part No.	Description	Remark
Q209	8-729-101-07	TRANSISTOR 2SB798-DL	
Q210	8-729-905-34	TRANSISTOR 2SC4081-Q	
Q260	8-729-905-34	TRANSISTOR 2SC4081-Q	
Q262	8-729-905-34	TRANSISTOR 2SC4081-Q	
Q263	8-729-905-34	TRANSISTOR 2SC4081-Q	
Q264	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q350	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q351	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q352	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q353	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q354	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q420	8-729-905-34	TRANSISTOR 2SC4081-Q	
Q421	8-729-905-34	TRANSISTOR 2SC4081-Q	
Q450	8-729-923-28	TRANSISTOR 2SC4083-N	
Q501	8-729-101-07	TRANSISTOR 2SB798-DL	
Q608	8-729-821-62	TRANSISTOR 2SB1203S-TL	
Q609	8-729-140-75	TRANSISTOR 2SD999-CLCK	
Q610	8-729-140-75	TRANSISTOR 2SD999-CLCK	
Q611	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q612	8-729-029-06	TRANSISTOR DTC124EUA-T106	
Q900	8-729-101-07	TRANSISTOR 2SB798-DL	
Q963	8-729-905-34	TRANSISTOR 2SC4081-Q	
Q964	8-729-028-83	TRANSISTOR DTA124EUA-T106	
		< RESISTOR >	
R100	1-216-805-11	METAL CHIP 47 5% 1/10W	
R106	1-216-864-11	SHORT CHIP 0	
R107	1-216-864-11	SHORT CHIP 0	
R108	1-220-245-11	RES-CHIP 1.2 10% 1/2W	
R109	1-220-245-11	RES-CHIP 1.2 10% 1/2W	
R183	1-216-864-11	SHORT CHIP 0	
R190	1-216-864-11	SHORT CHIP 0	
R201	1-216-864-11	SHORT CHIP 0	
R203	1-216-864-11	SHORT CHIP 0	
R205	1-216-864-11	SHORT CHIP 0	
R207	1-216-864-11	SHORT CHIP 0	
R211	1-216-818-11	METAL CHIP 560 5% 1/10W	
R222	1-216-809-11	METAL CHIP 100 5% 1/10W	
R223	1-216-809-11	METAL CHIP 100 5% 1/10W	
R224	1-216-809-11	METAL CHIP 100 5% 1/10W	
R225	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R226	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R227	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R228	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R229	1-216-843-11	METAL CHIP 68K 5% 1/10W	
R230	1-216-864-11	SHORT CHIP 0	
R231	1-218-867-11	RES-CHIP 6.8K 5% 1/10W	
R232	1-220-158-11	RES-CHIP 3.6K 5% 1/10W	
R233	1-216-840-11	METAL CHIP 39K 5% 1/10W	
R234	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R235	1-216-840-11	METAL CHIP 39K 5% 1/10W	
R236	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R237	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R238	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R239	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R240	1-216-836-11	METAL CHIP 18K 5% 1/10W	
R242	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R249	1-216-833-11	METAL CHIP 10K 5% 1/10W	

MONITOR

Ref. No.	Part No.	Description			Remark
R250	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R251	1-216-833-11	METAL CHIP	10K	5%	1/10W
R252	1-216-837-11	METAL CHIP	22K	5%	1/10W
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R254	1-216-835-11	METAL CHIP	15K	5%	1/10W
R255	1-216-835-11	METAL CHIP	15K	5%	1/10W
R256	1-216-797-11	METAL CHIP	10	5%	1/10W
R257	1-216-797-11	METAL CHIP	10	5%	1/10W
R258	1-216-836-11	METAL CHIP	18K	5%	1/10W
R259	1-218-725-11	RES-CHIP	24K	5%	1/10W
R260	1-216-821-11	METAL CHIP	1K	5%	1/10W
R261	1-216-833-11	METAL CHIP	10K	5%	1/10W
R262	1-216-821-11	METAL CHIP	1K	5%	1/10W
R263	1-216-839-11	METAL CHIP	33K	5%	1/10W
R264	1-216-833-11	METAL CHIP	10K	5%	1/10W
R265	1-216-833-11	METAL CHIP	10K	5%	1/10W
R266	1-216-841-11	METAL CHIP	47K	5%	1/10W
R267	1-216-841-11	METAL CHIP	47K	5%	1/10W
R270	1-216-821-11	METAL CHIP	1K	5%	1/10W
R271	1-216-821-11	METAL CHIP	1K	5%	1/10W
R280	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R281	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R282	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R285	1-216-864-11	SHORT CHIP	0		
R286	1-216-864-11	SHORT CHIP	0		
R344	1-216-805-11	METAL CHIP	47	5%	1/10W
R350	1-216-821-11	METAL CHIP	1K	5%	1/10W
R351	1-216-821-11	METAL CHIP	1K	5%	1/10W
R352	1-216-821-11	METAL CHIP	1K	5%	1/10W
R353	1-216-821-11	METAL CHIP	1K	5%	1/10W
R359	1-216-805-11	METAL CHIP	47	5%	1/10W
R401	1-216-864-11	SHORT CHIP	0		
R403	1-216-864-11	SHORT CHIP	0		
R404	1-216-864-11	SHORT CHIP	0		
R405	1-216-857-11	METAL CHIP	1M	5%	1/10W
R406	1-218-725-11	RES-CHIP	24K	5%	1/10W
R407	1-216-841-11	METAL CHIP	47K	5%	1/10W
R408	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R409	1-216-843-11	METAL CHIP	68K	5%	1/10W
R410	1-216-857-11	METAL CHIP	1M	5%	1/10W
R411	1-216-843-11	METAL CHIP	68K	5%	1/10W
R412	1-216-833-11	METAL CHIP	10K	5%	1/10W
R413	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R414	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R415	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R416	1-216-809-11	METAL CHIP	100	5%	1/10W
R417	1-216-815-11	METAL CHIP	330	5%	1/10W
R418	1-216-816-11	METAL CHIP	390	5%	1/10W
R419	1-216-854-11	METAL CHIP	560K	5%	1/10W
R420	1-216-854-11	METAL CHIP	560K	5%	1/10W
R421	1-216-864-11	SHORT CHIP	0		
R422	1-216-839-11	METAL CHIP	33K	5%	1/10W
R423	1-216-809-11	METAL CHIP	100	5%	1/10W
R424	1-216-818-11	METAL CHIP	560	5%	1/10W
R425	1-216-818-11	METAL CHIP	560	5%	1/10W
R429	1-218-725-11	RES-CHIP	24K	5%	1/10W
R430	1-216-833-11	METAL CHIP	10K	5%	1/10W
R431	1-216-849-11	METAL CHIP	220K	5%	1/10W
R433	1-216-821-11	METAL CHIP	1K	5%	1/10W
R434	1-216-821-11	METAL CHIP	1K	5%	1/10W
R435	1-216-864-11	SHORT CHIP	0		
R436	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R450	1-220-158-11	RES-CHIP	3.6K	5%	1/10W
R455	1-216-805-11	METAL CHIP	47	5%	1/10W
R502	1-216-846-11	METAL CHIP	120K	5%	1/10W
R503	1-216-837-11	METAL CHIP	22K	5%	1/10W
R520	1-216-817-11	METAL CHIP	470	5%	1/10W
R530	1-216-816-11	METAL CHIP	390	5%	1/10W
R615	1-216-198-00	RES-CHIP	1K	5%	1/8W
R616	1-216-198-00	RES-CHIP	1K	5%	1/8W
R620	1-216-835-11	METAL CHIP	15K	5%	1/10W
R621	1-216-814-11	METAL CHIP	270	5%	1/10W
R626	1-216-833-11	METAL CHIP	10K	5%	1/10W
R627	1-216-814-11	METAL CHIP	270	5%	1/10W
R630	1-216-838-11	METAL CHIP	27K	5%	1/10W
R631	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R632	1-216-864-11	SHORT CHIP	0		
R901	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R902	1-216-821-11	METAL CHIP	1K	5%	1/10W
R911	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R912	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R913	1-216-847-11	METAL CHIP	150K	5%	1/10W
R914	1-216-994-11	RES-CHIP	13K	5%	1/10W
R915	1-202-926-11	RES-CHIP	36K	5%	1/10W
R916	1-216-814-11	METAL CHIP	270	5%	1/10W
R917	1-216-814-11	METAL CHIP	270	5%	1/10W
R918	1-216-833-11	METAL CHIP	10K	5%	1/10W
R920	1-216-816-11	METAL CHIP	390	5%	1/10W
R941	1-216-864-11	SHORT CHIP	0		
R942	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R943	1-216-847-11	METAL CHIP	150K	5%	1/10W
R944	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R945	1-216-814-11	METAL CHIP	270	5%	1/10W
R946	1-216-833-11	METAL CHIP	10K	5%	1/10W
R948	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R949	1-216-847-11	METAL CHIP	150K	5%	1/10W
R950	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R962	1-216-864-11	SHORT CHIP	0		
R963	1-216-849-11	METAL CHIP	220K	5%	1/10W
R967	1-216-843-11	METAL CHIP	68K	5%	1/10W
R968	1-216-833-11	METAL CHIP	10K	5%	1/10W
R969	1-218-725-11	RES-CHIP	24K	5%	1/10W
R970	1-216-835-11	METAL CHIP	15K	5%	1/10W
R977	1-216-864-11	SHORT CHIP	0		
R978	1-216-186-00	RES-CHIP	330	5%	1/8W

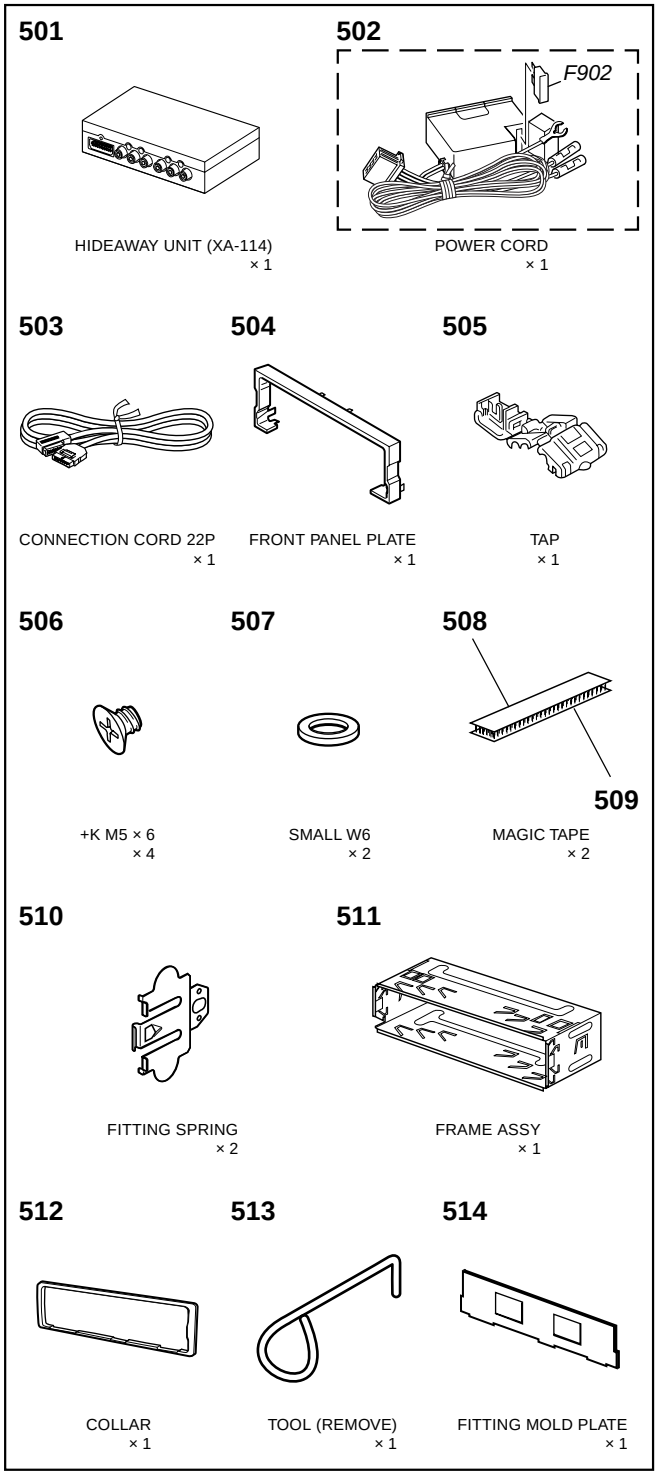
< VARIABLE RESISTOR >

RV201	1-238-088-11	RES, ADJ, CERMET	2.2K
RV207	1-238-092-11	RES, ADJ, CERMET	47K
RV208	1-238-092-11	RES, ADJ, CERMET	47K
RV209	1-238-092-11	RES, ADJ, CERMET	47K
RV210	1-238-092-11	RES, ADJ, CERMET	47K
RV211	1-238-090-11	RES, ADJ, CERMET	10K
RV212	1-238-092-11	RES, ADJ, CERMET	47K
RV213	1-238-092-11	RES, ADJ, CERMET	47K

MONITOR MOTOR PULSE SWITCH

Ref. No.	Part No.	Description			Remark
RV401	1-238-093-11	RES, ADJ, CERMET	100K		
RV402	1-238-089-11	RES, ADJ, CERMET	4.7K		
RV501	1-238-090-11	RES, ADJ, CERMET	10K		
RV503	1-238-088-11	RES, ADJ, CERMET	2.2K		
RV602	1-238-090-11	RES, ADJ, CERMET	10K		
RV900	1-238-090-11	RES, ADJ, CERMET	10K		
		< TRANSFORMER >			
T501	1-433-858-11	TRANSFORMER, DC/DC			
T601	1-433-859-11	TRANSFORMER, DC/AC			
**********					
	A-3315-662-A	MOTOR BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-126-027-11	ELECT	1000uF	20%	25V
C702	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C703	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C704	1-104-607-11	ELECT CHIP	47uF	20%	16V
C728	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C730	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C731	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
		< CONNECTOR >			
CN700	1-750-340-21	CONNECTOR, FFC/EPC (ZIF) 16P			
CN710	1-770-629-21	PIN, CONNECTOR 12P			
		< DIODE >			
D701	8-719-048-98	DIODE RB160L-40TE25			
D703	8-719-422-97	DIODE MA8091-M			
D704	8-719-420-51	DIODE MA729			
D705	8-719-420-51	DIODE MA729			
D706	8-719-977-12	DIODE DTZ6.8B			
D707	8-719-073-03	DIODE MA8082-(K8).S0			
D708	8-719-422-64	DIODE MA8062-M			
D715	8-719-977-03	DIODE DTZ5.6B			
		< FUSE >			
F701	1-576-430-21	FUSE, CHIP (350mA)			
		< IC >			
IC701	8-759-363-82	IC PQ09TZ1U			
IC702	8-759-276-89	IC BA6285FP-E2			
IC710	8-759-276-00	IC TC7W139FU (TE12R)			
		< SHORT >			
L701	1-216-296-00	SHORT	0		
		< TRANSISTOR >			
Q702	8-729-905-34	TRANSISTOR	2SC4081-Q		
Q710	8-729-029-06	TRANSISTOR	DTC124EUA-T106		
Q711	8-729-029-06	TRANSISTOR	DTC124EUA-T106		
Q712	8-729-029-06	TRANSISTOR	DTC124EUA-T106		
Q713	8-729-029-06	TRANSISTOR	DTC124EUA-T106		
Q714	8-729-029-06	TRANSISTOR	DTC124EUA-T106		
Q715	8-729-029-06	TRANSISTOR	DTC124EUA-T106		
Q716	8-729-029-06	TRANSISTOR	DTC124EUA-T106		
Q717	8-729-029-06	TRANSISTOR	DTC124EUA-T106		
Q720	8-729-905-34	TRANSISTOR	2SC4081-Q		
		< RESISTOR >			
R703	1-216-864-11	SHORT CHIP	0		
R709	1-216-817-11	METAL CHIP	470	5%	1/10W
R720	1-216-833-11	METAL CHIP	10K	5%	1/10W
R721	1-216-833-11	METAL CHIP	10K	5%	1/10W
R722	1-216-833-11	METAL CHIP	10K	5%	1/10W
R723	1-216-833-11	METAL CHIP	10K	5%	1/10W
R738	1-216-817-11	METAL CHIP	470	5%	1/10W
R740	1-216-833-11	METAL CHIP	10K	5%	1/10W
R741	1-216-833-11	METAL CHIP	10K	5%	1/10W
R742	1-216-833-11	METAL CHIP	10K	5%	1/10W
R743	1-216-833-11	METAL CHIP	10K	5%	1/10W
**********					
	1-676-686-31	PULSE BOARD			
		**********			
		< CONNECTOR >			
CN780	1-785-946-21	CONNECTOR 3P			
		< DIODE >			
D780	8-719-017-70	DIODE MA8024			
		< PHOTO INTERRUPTER >			
* PH780	8-749-013-34	PHOTO INTERRUPTER GP1S23K			
		< TRANSISTOR >			
Q782	8-729-905-34	TRANSISTOR	2SC4081-Q		
		< RESISTOR >			
R780	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R782	1-216-833-11	METAL CHIP	10K	5%	1/10W
R793	1-216-816-11	METAL CHIP	390	5%	1/10W
**********					
	1-676-685-31	SWITCH BOARD			
		**********			
		< CAPACITOR >			
C790	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C791	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C792	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN790	1-770-621-21	PIN, CONNECTOR 4P			
		< SWITCH >			
S790	1-571-958-11	SWITCH, PUSH (1KEY) (MONITOR CLOSE DETECT)			
S791	1-692-373-21	SWITCH, PUSH (1KEY) (MONITOR ANGLE DETECT)			
S792	1-692-373-21	SWITCH, PUSH (1KEY) (MONITOR START STANDING DETECT)			
**********					

Ref. No.	Part No.	Description			Remark
		SYNC BOARD			
		**********			
		< CAPACITOR >			
C1	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< IC >			
IC1	8-759-488-29	IC TC7W66FU (TE12R)			
		< TRANSISTOR >			
Q1	8-729-230-60	TRANSISTOR	2SA1586YG		
		< RESISTOR >			
R1	1-216-833-11	METAL CHIP	10K	5%	1/10W
R2	1-216-813-11	METAL CHIP	220	5%	1/10W
**********					
		MISCELLANEOUS			
		**********			
12	1-824-243-11	CORD, POWER			
13	1-824-240-11	CORD, CONNECTION (22P) (for XA-114 CONNECT)			
14	1-477-422-11	HIDEAWAY UNIT (XA-114)			
59	1-824-238-11	CORD, CONNECTION (ANT)			
60	1-824-239-11	CORD (WITH CONNECTOR) (RCA) (SUB WOOFER OUT, REAR/FRONT OUT)			
158	1-792-038-11	CABLE, FLAT 40P			
159	1-792-037-11	CABLE, FLAT 16P			
210	1-790-713-11	CABLE, FLAT 10P			
222	1-804-076-11	DISPLAY PANEL, LIQUID CRYSTAL			
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A/32V)			
F902	1-532-796-11	FUSE (BLADE TYPE) (AUTO FUSE) (5A/32V)			
**********					
		ACCESSORIES			
		**********			
	1-477-110-22	WIRELESS REMOTE COMMANDER (RM-X118)			
	3-243-055-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (US)			
	3-243-055-21	MANUAL, INSTRUCTION (ENGLISH, CHINESE) (E)			
	3-243-056-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, SPANISH) (US)			
	3-243-056-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, CHINESE) (E)			
	3-230-047-01	HOLDER, BATTERY (FOR RM-X118)			
**********					
		PARTS FOR INSTALLATION AND CONNECTIONS			
		**********			
501	1-477-422-11	HIDEAWAY UNIT (XA-114)			
502	1-824-243-11	CORD, POWER			
503	1-824-240-11	CORD (WITH CONNECTOR) 22P (for XA-114 CONNECT)			
504	3-036-095-21	SPACER (14)			
505	1-562-593-11	CONNECTOR (CL-2218T)			
506	3-031-703-01	SCREW (M5X6), +K			
507	7-623-113-05	W6, SMALL			
508	3-310-656-01	TAPE, MAGIC			
509	3-310-658-01	TAPE (B), MAGIC			
510	3-943-787-03	SPRING, FITTING			
511	X-3373-602-2	FRAME ASSY			
512	3-242-055-01	COLLAR			
513	3-702-658-02	TOOL (REMOVE)			
514	3-046-029-02	PLATE, FITTING MOLD			
F902	1-532-796-11	FUSE (BLADE TYPE) (AUTO FUSE) (5A/32V)			



REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2002.04	New